



RADIO TEST REPORT

FCC ID : 2ARXK-VHC25
Equipment : Wireless Edge Server
Brand Name : Veeahub
Model Name : VHC25,VHC20
Applicant : Veea Inc.
164 E 83rd Street, NEW YORK,United States, 10028
Manufacturer : Veea Inc.
164 E 83rd Street, NEW YORK,United States, 10028
Standard : 47 CFR FCC Part 15.247

The product was received on Aug. 09, 2021, and testing was started from Aug. 11, 2021 and completed on Sep. 18, 2021. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Hsinchu Laboratory, the test report shall not be reproduced except in full.

Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory

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Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description	5
1.1 Information.....	5
1.2 Applicable Standards	10
1.3 Testing Location Information	10
1.4 Measurement Uncertainty	11
2 Test Configuration of EUT.....	12
2.1 Test Channel Mode	12
2.2 The Worst Case Measurement Configuration.....	14
2.3 EUT Operation during Test	15
2.4 Accessories	16
2.5 Support Equipment.....	16
2.6 Test Setup Diagram	17
3 Transmitter Test Result	20
3.1 AC Power-line Conducted Emissions	20
3.2 DTS Bandwidth	22
3.3 Maximum Conducted Output Power	23
3.4 Power Spectral Density	26
3.5 Emissions in Non-restricted Frequency Bands	28
3.6 Emissions in Restricted Frequency Bands.....	29
4 Test Equipment and Calibration Data	33
Appendix A. Test Results of AC Power-line Conducted Emissions	
Appendix B. Test Results of DTS Bandwidth	
Appendix C. Test Results of Maximum Conducted Output Power	
Appendix D. Test Results of Power Spectral Density	
Appendix E. Test Results of Emissions in Non-restricted Frequency Bands	
Appendix F. Test Results of Emissions in Restricted Frequency Bands	
Appendix G. Test Results of Radiated Emission Co-location	
Appendix H. Test Photos	
Photographs of EUT v01	



History of this test report

TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB-A10_10 Ver1.3

Page Number : 3 of 35
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Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.247(a)	DTS Bandwidth	PASS	-
3.3	15.247(b)	Maximum Conducted Output Power	PASS	-
3.4	15.247(e)	Power Spectral Density	PASS	-
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.6	15.247(d)	Emissions in Restricted Frequency Bands	PASS	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

1. The test configuration, test mode and test software were written in this test report are declared by the manufacturer.
2. The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Sam Chen

Report Producer: Wendy Pan



1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
2400-2483.5	b, g, n (HT20), VHT20, ax (HEW20)	2412-2462	1-11 [11]
2400-2483.5	n (HT40), VHT40, ax (HEW40)	2422-2452	3-9 [7]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	11b	20	2
2.4-2.4835GHz	11g	20	2
2.4-2.4835GHz	802.11n HT20	20	2
2.4-2.4835GHz	802.11n HT20-BF	20	2
2.4-2.4835GHz	VHT20	20	2
2.4-2.4835GHz	VHT20-BF	20	2
2.4-2.4835GHz	802.11ax HEW20	20	2
2.4-2.4835GHz	802.11ax HEW20-BF	20	2
2.4-2.4835GHz	802.11n HT40	40	2
2.4-2.4835GHz	802.11n HT40-BF	40	2
2.4-2.4835GHz	VHT40	40	2
2.4-2.4835GHz	VHT40-BF	40	2
2.4-2.4835GHz	802.11ax HEW40	40	2
2.4-2.4835GHz	802.11ax HEW40-BF	40	2

Note:

- ♦ 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- ♦ 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- ♦ HEW20, HEW40 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ BWch is the nominal channel bandwidth.


1.1.2 Antenna Information

Ant.	Brand Name	Model Name	Antenna Type	Connector	Gain (dBi)
1	WNC	VHC25	PIFA	I-PEX	Note 1
2	WNC	VHC25	PIFA	I-PEX	
3	WNC	VHC25	PIFA	I-PEX	
4	WNC	VHC25	PIFA	I-PEX	

Note 1:

Ant.	Port					Gain (dBi)				
	WLAN 2.4GHz	WLAN 5GHz UNII-3	WLAN 5GHz UNII-1	Bluetooth BR/EDR	Bluetooth LE or IEEE802.15.4	WLAN 2.4GHz	WLAN 5GHz UNII-3	WLAN 5GHz UNII-1	Bluetooth BR/EDR	Bluetooth LE or IEEE802.15.4
1	-	-	2	1	-	-	-	3.6	2.3	-
2	1	2	-	-	-	2.2	3.3	-	-	-
3	-	-	1	-	1	-	-	3.5	-	1.9
4	2	1	-	-	-	1.8	3.4	-	-	-

Note 2: The above information was declared by manufacturer.

Note 3: Directional gain information

Type	Maximum Output Power	Power Spectral Density
Non-BF	Directional gain = Max.gain + array gain. For power measurements on IEEE 802.11 devices Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$	$Directional\ IGain = 10 \cdot \log \left[\frac{\sum_{i=1}^{N_{ss}} \left\{ \sum_{k=1}^{N_{ANT}} g_{i,k} \right\}^2}{N_{ANT}} \right]$
BF	$Directional\ IGain = 10 \cdot \log \left[\frac{\sum_{i=1}^{N_{ss}} \left\{ \sum_{k=1}^{N_{ANT}} g_{i,k} \right\}^2}{N_{ANT}} \right]$	$Directional\ IGain = 10 \cdot \log \left[\frac{\sum_{i=1}^{N_{ss}} \left\{ \sum_{k=1}^{N_{ANT}} g_{i,k} \right\}^2}{N_{ANT}} \right]$

Ex.

Directional Gain (NSS1) formula :

$$Directional\ IGain = 10 \cdot \log \left[\frac{\sum_{i=1}^{N_{ss}} \left\{ \sum_{k=1}^{N_{ANT}} g_{i,k} \right\}^2}{N_{ANT}} \right]$$

$$NSS1(g1,1) = 10^{G1/20} ; NSS1(g1,2) = 10^{G2/20} ; NSS1(g1,3) = 10^{G3/20} ; NSS1(g1,4) = 10^{G4/20}$$

$$g_{j,k} = (NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2$$

$$DG = 10 \log[(NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2 / N_{ANT}] \Rightarrow 10$$

$$\log[(10^{G1/20} + 10^{G2/20} + 10^{G3/20} + 10^{G4/20})^2 / N_{ANT}]$$

Where ;

G1 = Ant 1 Gain ; G2 = Ant 2 Gain ; G3 = Ant 3 Gain ; G4 = Ant 4 Gain ;

2.4GHz DG = 5.01 dBi

5 GHz U-NII-1 DG = 6.56 dBi

5 GHz U-NII-3 DG = 6.36 dBi

For 2.4GHz:

For IEEE 802.11b/g/n/VHT/ax mode (2TX/2RX):

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

For 5GHz UNII-1 / UNII-3:

For IEEE 802.11a/n/ac/ax mode (2TX/2RX):

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

Bluetooth / IEEE802.15.4 (1TX/1RX):

Only Port 1 can be used as transmitting/receiving antenna.

**1.1.3 Mode Test Duty Cycle**

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b	0.631	2	665u	3k
802.11g	0.947	0.24	1.978m	1k
802.11ax HEW20	0.94	0.27	5.447m	300
802.11ax HEW40	0.965	0.15	5.445m	300

Note:

- ♦ DC is Duty Cycle.
- ♦ DCF is Duty Cycle Factor.

1.1.4 EUT Operational Condition

EUT Power Type	From adapter			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	The product has beamforming function for n/VHT/ax in 2.4GHz and n/ac/ax in 5GHz.			
Function	☒	Point-to-multipoint	☐	Point-to-point
Test Software Version	DOS [ver 6.1.7601]			

Note: The above information was declared by manufacturer.

**1.1.5 Table for Multiple Listing**

Model Name	Description
VHC25	All the model names are identical, the difference model names served as marketing strategy.
VHC20	

Note1: From the above models, model: VHC25 was selected as representative model for the test and its data was recorded in this report.

Note 2: The above information was declared by manufacturer.

1.1.6 Table for EUT Operation Information

Operation Mode	Description
1	WLAN 2.4GHz + 5GHz Low Band + 5GHz High Band + Bluetooth BR/EDR + IEEE 802.15.4
2	WLAN 2.4GHz + 5GHz Low Band + 5GHz High Band + Bluetooth BR/EDR + Bluetooth LE

Note: The above information was declared by manufacturer.

1.1.7 Table for EUT support function

Function
AP
Mesh

Note1: AP mode was selected as representative mode for AC power-line conducted emissions and Emissions in Restricted Frequency Bands below 1GHz test and its data was recorded in this report.

Note2: The above information was declared by manufacturer.



1.2 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR FCC Part 15.247
- ♦ ANSI C63.10-2013

The following reference test guidance is not within the scope of accreditation of TAF.

- ♦ FCC KDB 558074 D01 v05r02
- ♦ FCC KDB 662911 D01 v02r01
- ♦ FCC KDB 414788 D01 v01r01

1.3 Testing Location Information

Testing Location Information	
Test Lab. : Sporton International Inc. Hsinchu Laboratory	
Hsinchu	ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)
(TAF: 3787)	TEL: 886-3-656-9065 FAX: 886-3-656-9085
	Test site Designation No. TW3787 with FCC.
	Conformity Assessment Body Identifier (CABID) TW3787 with ISED.

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH01-CB	Caster Chang	23.2~24.2 / 53~55	Aug. 13, 2021 ~ Sep. 18, 2021
Radiated<1GHz	10CH01-CB	Peter Wu	23~24 / 58~59	Aug. 30, 2021 ~ Dec. 03, 2021
Radiated>1GHz	03CH04-CB	RJ Huang	24.6-25.7 / 55-58	Aug. 11, 2021 ~ Sep. 09, 2021
Radiated Co-Location	03CH06-CB	RJ Huang	25.8-28.2 / 56-59	Aug. 11, 2021 ~ Sep. 09, 2021
AC Conduction	CO01-CB	Ryo Fan	22~23 / 65~67	Aug. 27, 2021



1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	2.0 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	1.6 dB	Confidence levels of 95%
Radiated Emissions below 1GHz	4.2 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.2 dB	Confidence levels of 95%
Conducted Emission	2.5 dB	Confidence levels of 95%
Output Power Measurement	1.3 dB	Confidence levels of 95%
Power Density Measurement	2.5 dB	Confidence levels of 95%
Bandwidth Measurement	0.9%	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

<For Non-Beamforming Mode>

Mode	Power Setting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	59
2437MHz	59
2462MHz	59
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	46
2417MHz	48
2437MHz	60
2457MHz	48
2462MHz	46
802.11ax HEW20_Nss1,(MCS0)_2TX	-
2412MHz	46
2417MHz	47
2437MHz	60
2457MHz	47
2462MHz	46
802.11ax HEW40_Nss1,(MCS0)_2TX	-
2422MHz	44
2437MHz	46
2452MHz	44

**<For Beamforming Mode>**

Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
2412MHz	46
2417MHz	47
2437MHz	60
2457MHz	47
2462MHz	46
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
2422MHz	44
2437MHz	46
2452MHz	44

Note:

- ♦ Evaluated HEW20/HEW40 mode only, due to similar modulation. The power setting of HT20/HT40/VHT20/VHT40 mode are the same or lower than HEW20/HEW40.
- ♦ The EUT supports beamforming and CDD modes, and the CDD mode is the worst case. Therefore, all test items are evaluated in the report. The beamforming mode only evaluates the output power.

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	Normal Link
1	Normal Link – AP mode (WLAN 2.4GHz + 5GHz Low Band + 5GHz High Band) + CTX (Bluetooth BR/EDR + IEEE 802.15.4) + Adapter
2	Normal Link – AP mode (WLAN 2.4GHz + 5GHz Low Band + 5GHz High Band) + CTX (Bluetooth BR/EDR + Bluetooth LE) + Adapter
For operating mode 1 is the worst case and it was record in this test report.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	DTS Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in Non-restricted Frequency Bands
Test Condition	Conducted measurement at transmit chains

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Restricted Frequency Bands
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	Normal Link
1	EUT in Z axis Normal Link – AP mode (WLAN 2.4GHz + 5GHz Low Band + 5GHz High Band) + CTX (Bluetooth BR/EDR + IEEE 802.15.4) + Adapter
2	EUT in Z axis Normal Link – AP mode (WLAN 2.4GHz + 5GHz Low Band + 5GHz High Band) + CTX (Bluetooth BR/EDR + Bluetooth LE) + Adapter
Mode 1 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3 ~ 4 will follow this same test mode.	
3	EUT in Y axis Normal Link – AP mode (WLAN 2.4GHz + 5GHz Low Band + 5GHz High Band) + CTX (Bluetooth BR/EDR + IEEE 802.15.4) + Adapter
4	EUT in X axis Normal Link – AP mode (WLAN 2.4GHz + 5GHz Low Band + 5GHz High Band) + CTX (Bluetooth BR/EDR + IEEE 802.15.4) + Adapter
For operating mode 1 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	The EUT was performed at X axis, Y axis and Z axis position t, and the worst case was found at Z axis. So the measurement will follow this same test configuration. EUT in Z axis CTX

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Normal Link
	The EUT was performed at X axis, Y axis and Z axis position t, and the worst case was found at Z axis. So the measurement will follow this same test configuration.
1	EUT in Z axis Normal Link – AP mode (WLAN 2.4GHz + 5GHz Low Band + 5GHz High Band) + CTX (Bluetooth BR/EDR + IEEE 802.15.4) + Adapter
2	EUT in Z axis Normal Link – AP mode (WLAN 2.4GHz + 5GHz Low Band + 5GHz High Band) + CTX (Bluetooth BR/EDR + Bluetooth LE) + Adapter
Refer to Appendix G for Radiated Emission Co-location.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz + 5GHz Low Band + 5GHz High Band + Bluetooth BR/EDR + IEEE 802.15.4
2	WLAN 2.4GHz + 5GHz Low Band + 5GHz High Band + Bluetooth BR/EDR + Bluetooth LE
Refer to Sporton Test Report No.: FA172726 for Co-location RF Exposure Evaluation.	

Note: The EUT can only be used in Z axis position.

2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link:

During the test, the EUT operation to normal function.



2.4 Accessories

Accessories			
Equipment Name	Brand Name	Model Name	Rating
Adapter	Veea	VHC25-30A	Input: 100-240V~50/60Hz, 1.0A Max Output: 12V, 2.5A
Other			
RJ-45 cable*1: Non-shielded, 1.8m			

2.5 Support Equipment

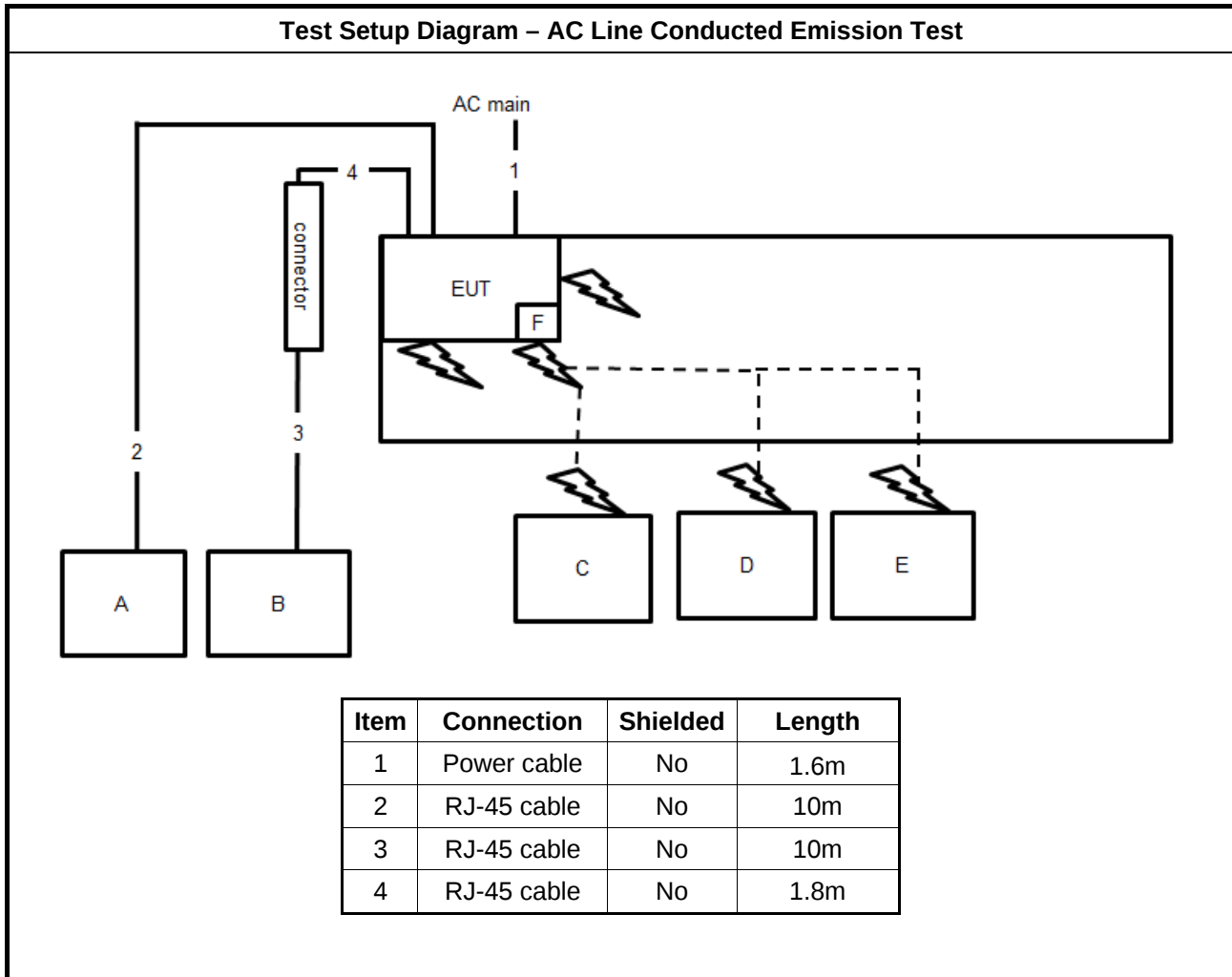
For AC Conduction and Radiated (below 1GHz):

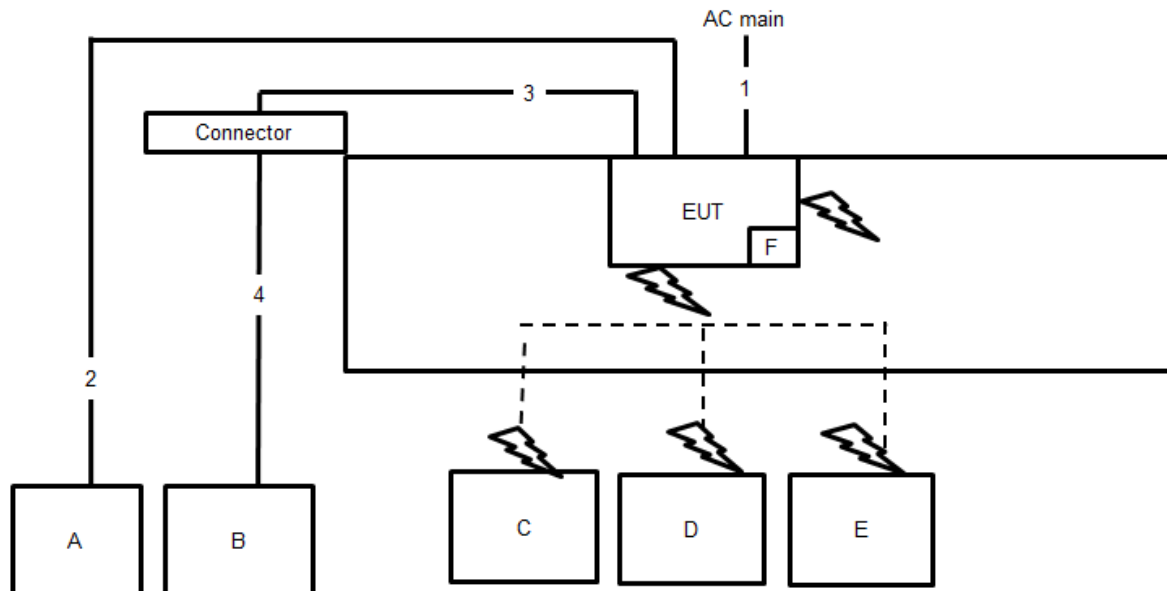
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	LAN NB	DELL	E6430	N/A
B	WAN NB	DELL	E6430	N/A
C	2.4G NB	DELL	E6430	N/A
D	5GL NB	DELL	E6430	N/A
E	5GH NB	DELL	E6431	N/A
F	Micro SD Card	Transcend	TS16GUSDHC10	N/A

For Radiated (above 1GHz) and RF Conducted:

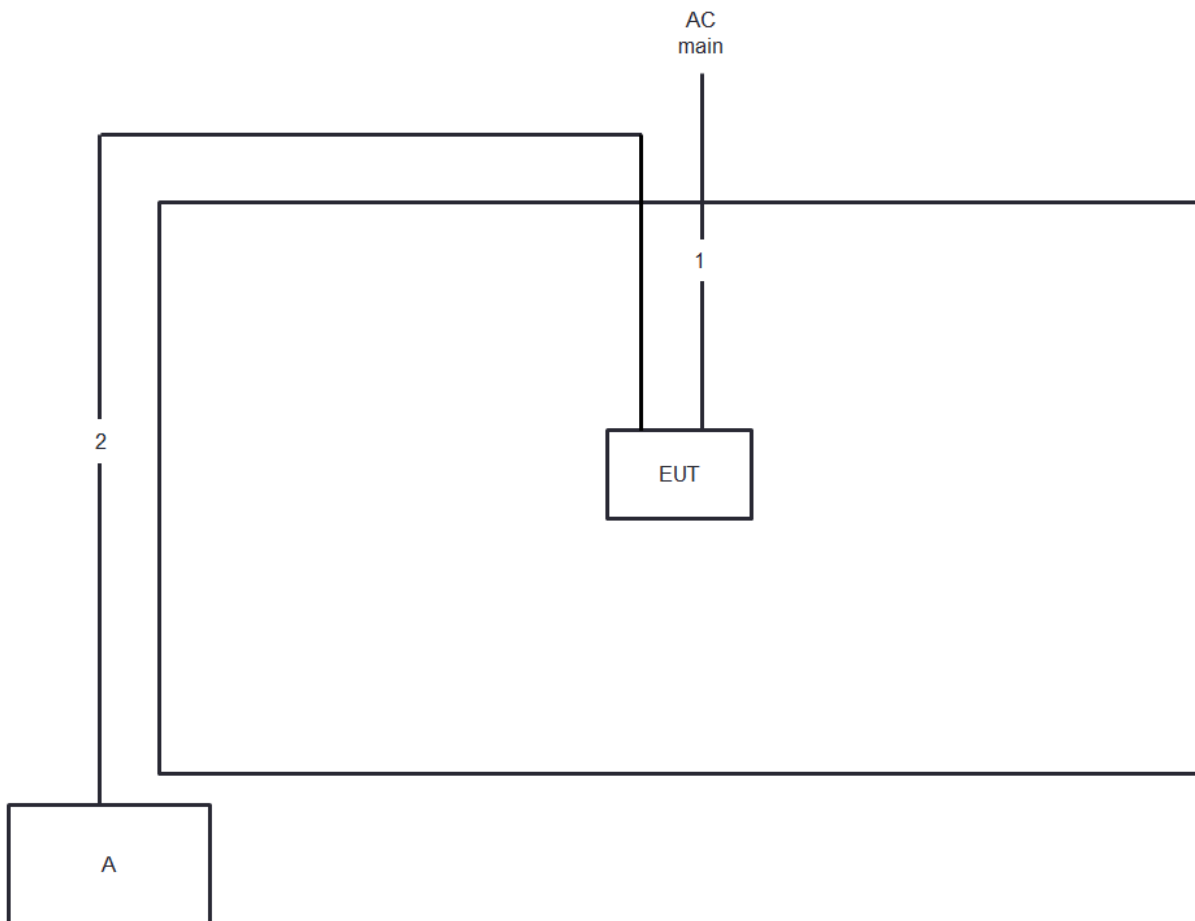
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test < 1GHz


Item	Connection	Shielded	Length
1	Power cable	No	1.6m
2	RJ-45 cable	No	10m
3	RJ-45 cable	No	1.8m
4	RJ-45 cable	No	10m

Test Setup Diagram - Radiated Test > 1GHz


Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable	No	10m



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: * Decreases with the logarithm of the frequency.

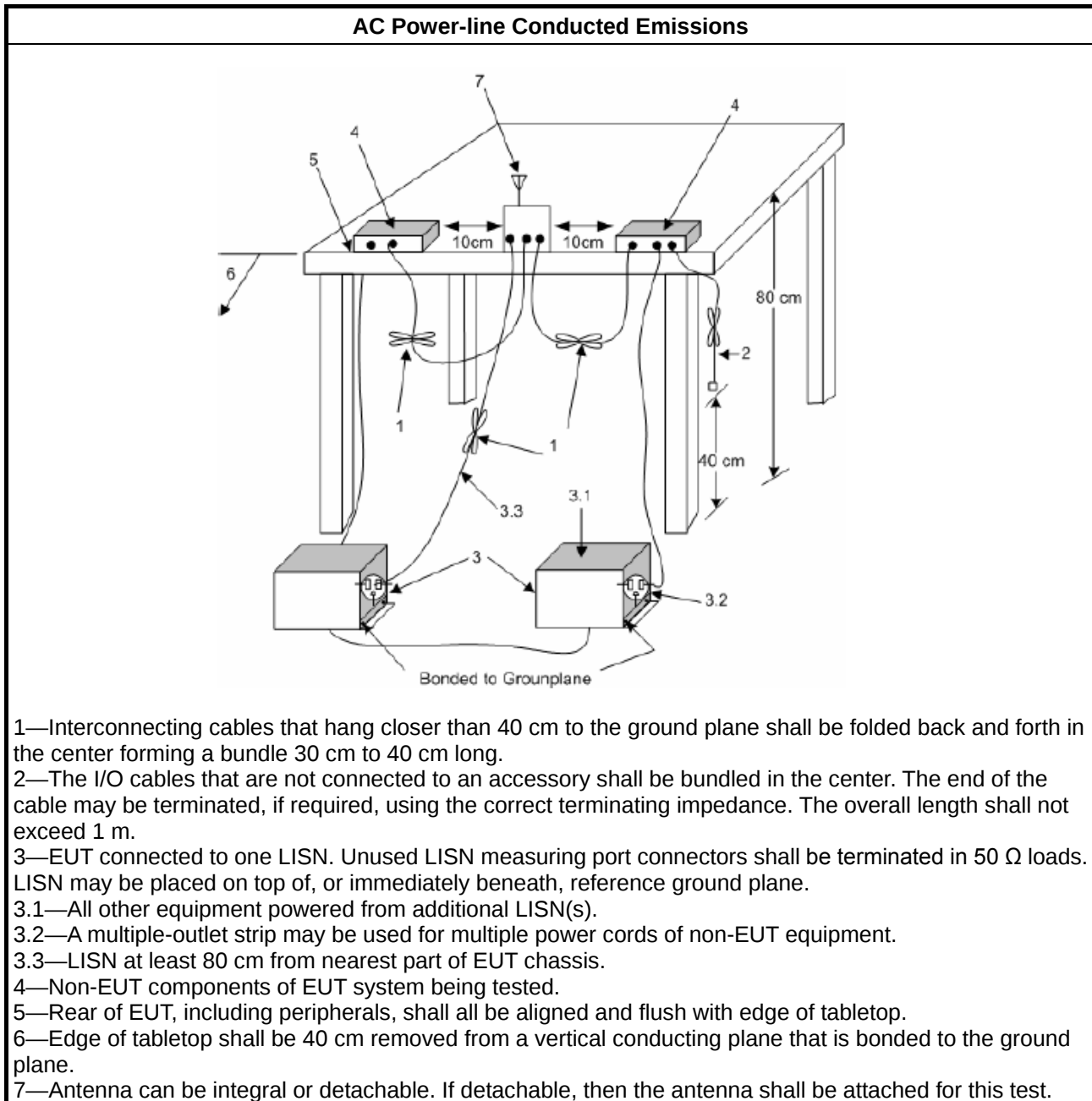
3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Test Setup



3.1.5 Measurement Results Calculation

The measured Level is calculated using:

- Corrected Reading: LISN Factor (LISN) + Attenuator (AT/AUX) + Cable Loss (CL) + Read Level (Raw) = Level
- Margin = -Limit + Level

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit
Systems using digital modulation techniques:
6 dB bandwidth $\geq$ 500 kHz.

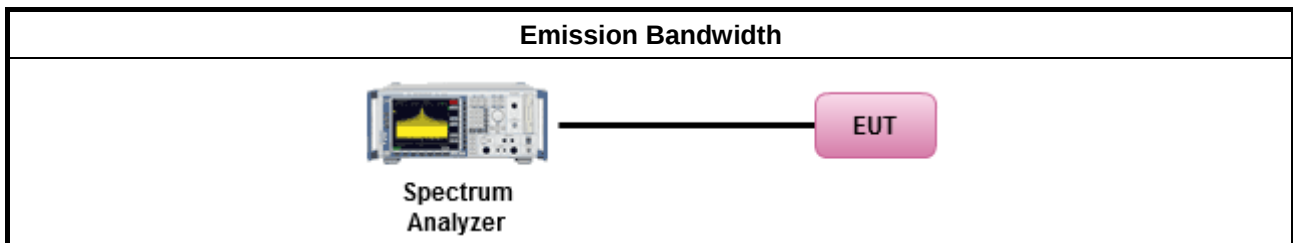
3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

Test Method
For the emission bandwidth shall be measured using one of the options below:
☒ Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.1 Option 1 for 6 dB bandwidth measurement.
☐ Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.2 Option 2 for 6 dB bandwidth measurement.
☐ Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
	▪ If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)
	▪ Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm
	▪ Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	▪ Smart antenna system (SAS):
	- Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	- Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	- Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB dBm
P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

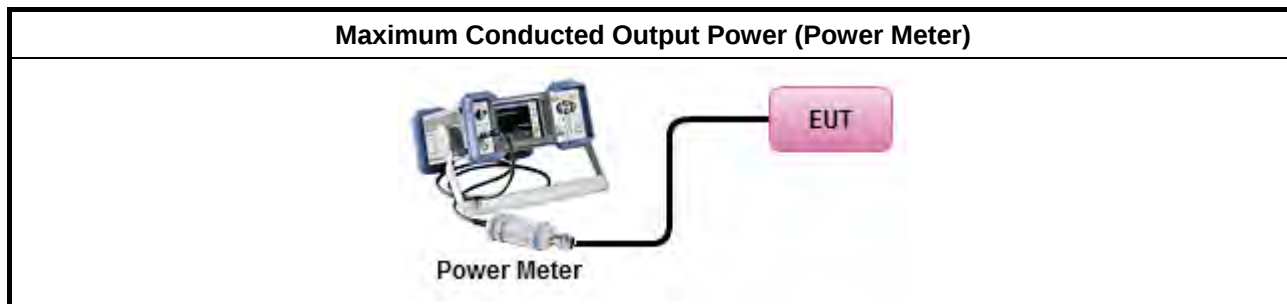
3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

Test Method	
Maximum Peak Conducted Output Power	
☐	Refer as FCC KDB 558074, clause 8.3.1.1 & C63.10 clause 11.9.1.1 (RBW ≥ EBW method).
☐	Refer as FCC KDB 558074, clause 8.3.1.3 & C63.10 clause 11.9.1.3 (peak power meter).
Maximum Conducted Output Power	
[duty cycle ≥ 98% or external video / power trigger]	
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.2 Method AVGSA-1.
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.3 Method AVGSA-1A. (alternative)
duty cycle < 98% and average over on/off periods with duty factor	
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.4 Method AVGSA-2.
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.5 Method AVGSA-2A (alternative)
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.6 Method AVGSA-3
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.7 Method AVGSA-3A (alternative)
Measurement using a power meter (PM)	
☐	Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.1 Method AVGPM (using an RF average power meter).
☒	Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.2 Method AVGPM-G (using an gate RF average power meter).
For conducted measurement.	
If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.	
If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$	

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

Power Spectral Density Limit
Power Spectral Density (PSD) ≤ 8 dBm/3kHz

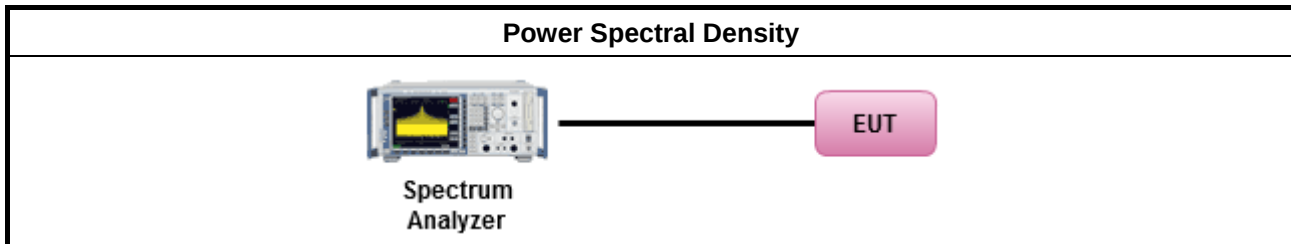
3.4.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

Test Method							
Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).							
☒	Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10 Method Max. PSD.						
- For conducted measurement. - If The EUT supports multiple transmit chains using options given below: <table border="1"> <tr> <td>☒</td><td>Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.</td></tr> <tr> <td>☐</td><td>Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,</td></tr> <tr> <td>☐</td><td>Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.</td></tr> </table>		☒	Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.	☐	Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,	☐	Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.
☒	Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.						
☐	Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,						
☐	Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.						

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	Limit (dBc)
Peak output power procedure	20
Average output power procedure	30
Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level. Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.	

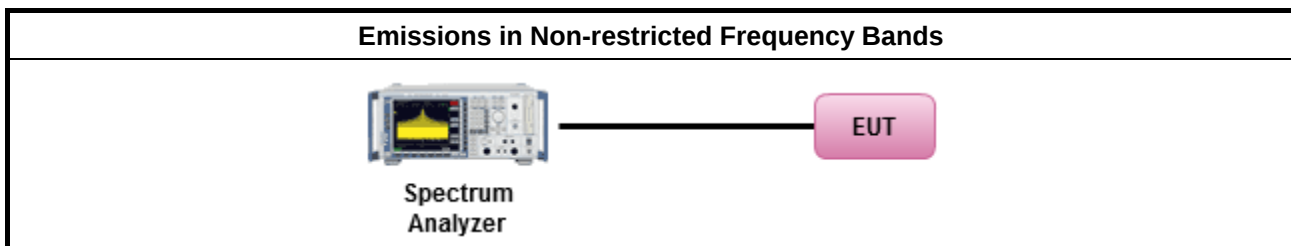
3.5.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

Test Method
Refer as FCC KDB 558074, clause 8.5 for unwanted emissions into non-restricted bands.

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m.

3.6.2 Measuring Instruments

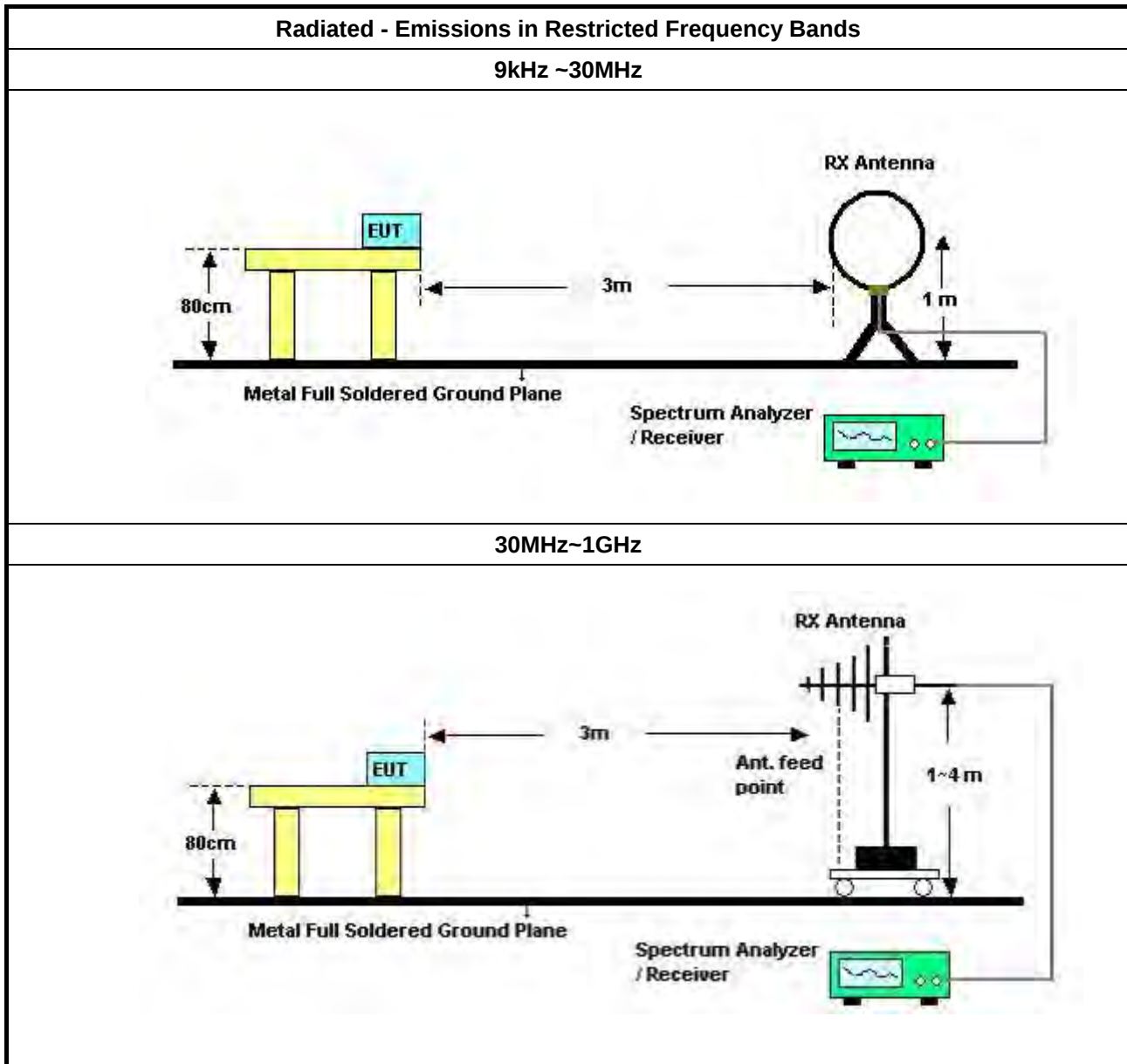
Refer a test equipment and calibration data table in this test report.

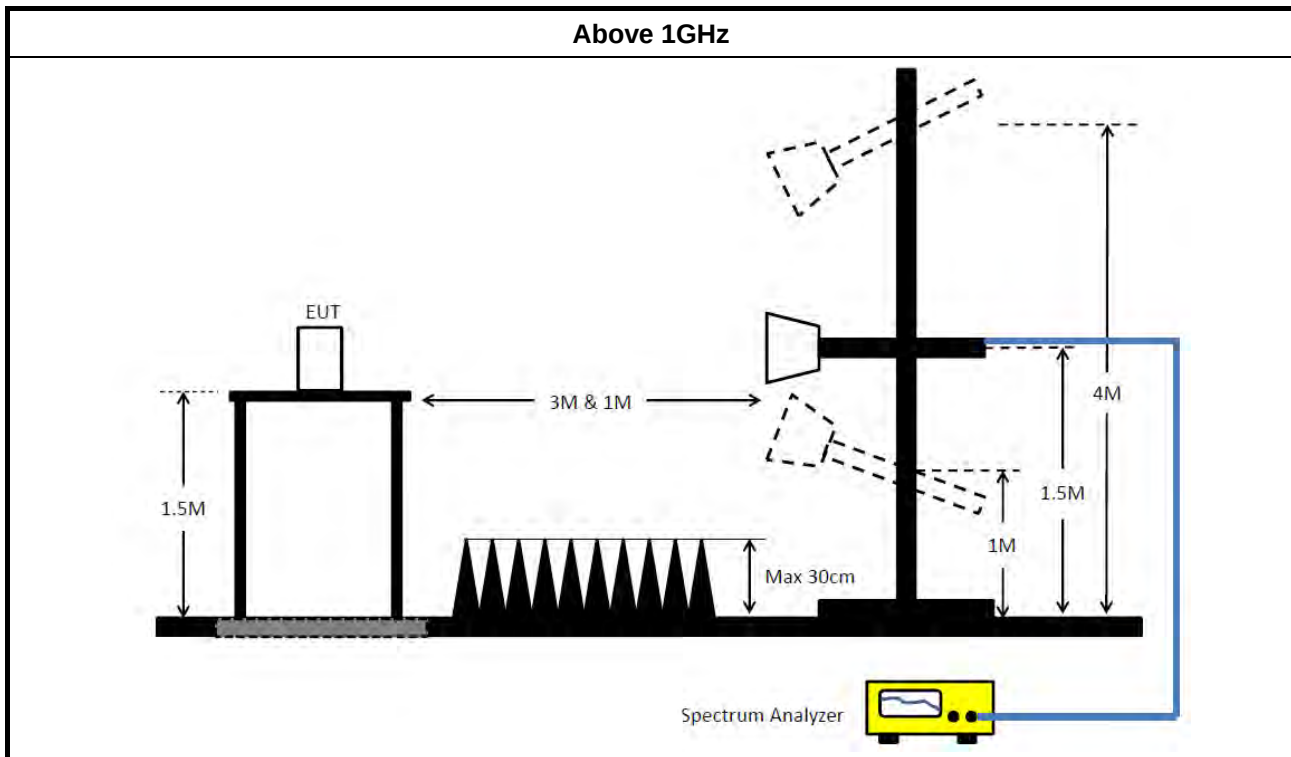


3.6.3 Test Procedures

Test Method	
The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].	
Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands.
☐	Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle $\geq 98\%$).
☐	Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor).
☒	Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW $\geq 1/T$).
☐	Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW $\geq 1/T$, where T is pulse time.
☐	Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
☒	Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.4 measurement procedure peak limit.
For the transmitter band-edge emissions shall be measured using following options below:	
	Refer as FCC KDB 558074 clause 8.7 & C63.10 clause 11.13.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	Refer as FCC KDB 558074, clause 8.7 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.
	Refer as FCC KDB 558074, clause 8.7 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).
	For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB
	For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.

3.6.4 Test Setup





3.6.5 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Antenna factor (AF) + Cable loss (CL) + Read level (Raw) - Preamp factor (PA)(if applicable) = Level.

3.6.6 Emissions in Restricted Frequency Bands (Below 30MHz)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.

All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10th harmonic or 40 GHz, whichever is appropriate.

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F



4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Mar. 03, 2021	Mar. 02, 2022	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Jan. 06, 2021	Jan. 05, 2022	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Mar. 07, 2021	Mar. 06, 2022	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Jan. 30, 2021	Jan. 29, 2022	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 19, 2021	May 18, 2022	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
10m Semi Anechoic Chamber NSA	TDK	SAC-10M	10CH01-CB	30MHz~1GHz 10m,3m	Jan. 28, 2021	Jan. 27, 2022	Radiation (10CH01-CB)
Pre-Amplifier	Agilent	8447D	2944A10783	9kHz ~ 1.3GHz	Mar. 11, 2021	Mar. 10, 2022	Radiation (10CH01-CB)
Pre-Amplifier	Agilent	8447D	2944A10784	9kHz ~ 1.3GHz	Mar. 11, 2021	Mar. 10, 2022	Radiation (10CH01-CB)
Low Cable	Woken	SUCOFLEX 104	low cable-01	25MHz ~ 1GHz	Oct. 20, 2020	Oct. 19, 2021	Radiation (10CH01-CB)
Low Cable	Woken	SUCOFLEX 104	low cable-01	25MHz ~ 1GHz	Oct. 19, 2021	Oct. 18, 2022	Radiation (10CH01-CB)
High Cable	Woken	SUCOFLEX 104	low cable-02	25MHz ~ 1GHz	Oct. 20, 2020	Oct. 19, 2021	Radiation (10CH01-CB)
High Cable	Woken	SUCOFLEX 104	low cable-02	25MHz ~ 1GHz	Oct. 19, 2021	Oct. 18, 2022	Radiation (10CH01-CB)
Bilog Antenna with 6dB Attenuator	Chase & EMCI	CBL6111A &N-6-06	1543 &AT-N0609	30MHz ~ 1GHz	Jul. 01, 2021	Jun. 30, 2022	Radiation (10CH01-CB)
EMI Test Receiver	Rohde&Schwarz	ESCI	100186	9kHz ~ 3GHz	Jul. 12, 2021	Jul. 11, 2022	Radiation (10CH01-CB)
Spectrum Analyzer	Rohde&Schwarz	FSV30	101026	9kHz ~ 30GHz	Mar. 08, 2021	Mar. 07, 2022	Radiation (10CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Apr. 14, 2021	Apr. 13, 2022	Radiation (10CH01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (10CH01-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH04-CB	1GHz ~18GHz 3m	Feb. 25, 2021	Feb. 24, 2022	Radiation (03CH04-CB)
Horn Antenna	ETS • Lindgren	3115	00143147	750MHz~18GHz	Oct. 23, 2020	Oct. 22, 2021	Radiation (03CH04-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 18, 2021	Jun. 17, 2022	Radiation (03CH04-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Pre-Amplifier	Agilent	83017A	MY53270063	0.5GHz ~ 26.5GHz	Jul. 12, 2021	Jul. 11, 2022	Radiation (03CH04-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 13, 2021	Jul. 12, 2022	Radiation (03CH04-CB)
Spectrum Analyzer	R&S	FSP40	100142	9kHz~40GHz	Feb. 19, 2021	Feb. 18, 2022	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21	1GHz - 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21+67	1GHz - 18GHz	Nov. 05, 2020	Nov. 04, 2021	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH04-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH04-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH06-CB	1GHz ~18GHz 3m	Oct. 02, 2020	Oct. 01, 2021	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1370	1GHz~18GHz	Sep. 21, 2020	Sep. 20, 2021	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 18, 2021	Jun. 17, 2022	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	83017A	MY53270064	0.5GHz ~ 26.5GHz	May 06, 2021	May 05, 2022	Radiation (03CH06-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 13, 2021	Jul. 12, 2022	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSP40	100080	9kHz~40GHz	Dec. 15, 2020	Dec. 14, 2021	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-05	1GHz~18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-05+24	1GHz~18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH06-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	May 21, 2021	May 20, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz ~ 26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz ~26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz ~26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)

**RADIO TEST REPORT****Report No. : FR172726AA**

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-09	1 GHz –26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-30	1 GHz –26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
Power Sensor	Agilent	E9327A	US40442088	50MHz~18GHz	Feb. 23, 2021	Feb. 22, 2022	Conducted (TH01-CB)
Power Meter	Agilent	E4416A	GB41291199	50MHz~18GHz	Feb. 23, 2021	Feb. 22, 2022	Conducted (TH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH01-CB)

Note: Calibration Interval of instruments listed above is one year.

N.C.R. means Non-Calibration required.



Conducted Emissions at Powerline

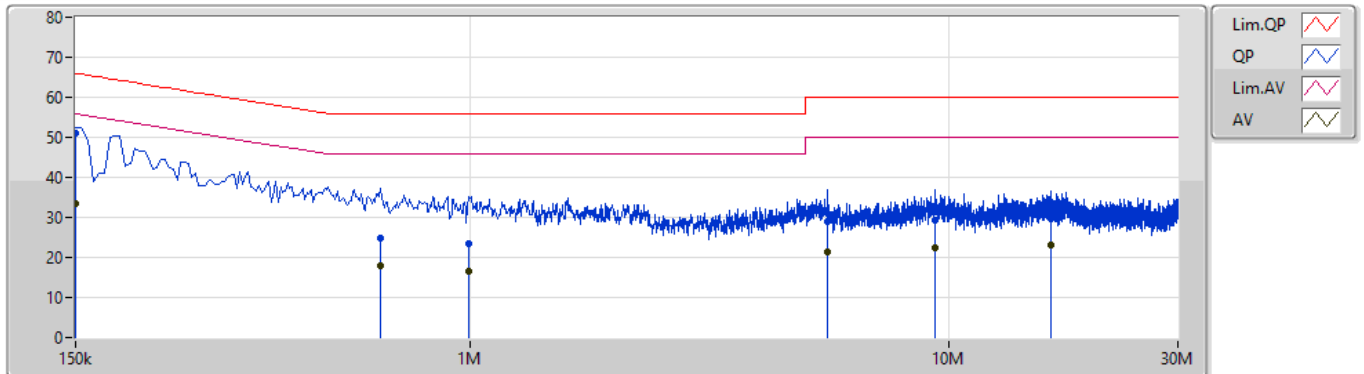
Appendix A

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	150k	50.89	66.00	-15.11	Line

Mode 1

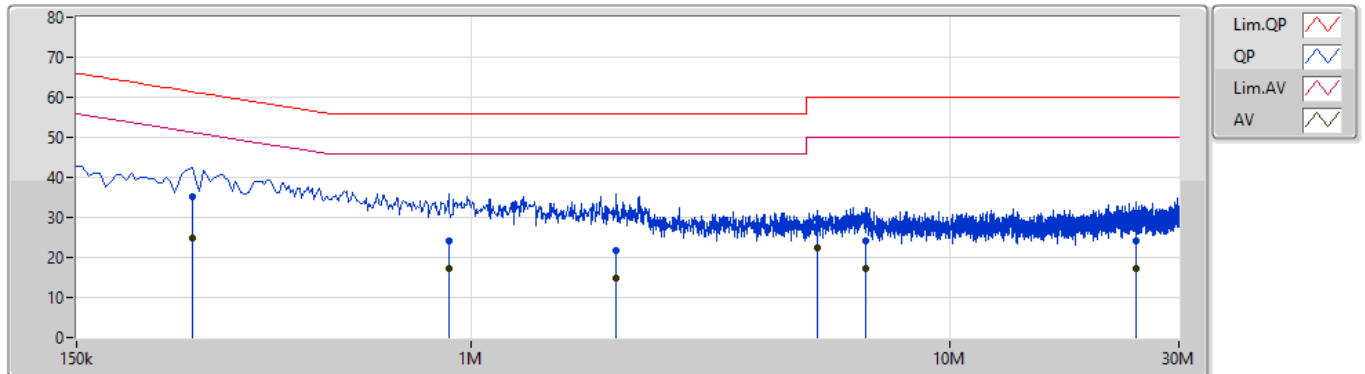
27/08/2021



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	150k	50.89	66.00	-15.11	9.89	Line	"Worst"	41.00	0.04	0.04	9.81			
AV	150k	33.54	56.00	-22.46	9.89	Line	-	23.65	0.04	0.04	9.81			
QP	649.5k	24.86	56.00	-31.14	9.92	Line	-	14.94	0.05	0.04	9.83			
AV	649.5k	18.06	46.00	-27.94	9.92	Line	-	8.14	0.05	0.04	9.83			
QP	996k	23.35	56.00	-32.65	9.93	Line	-	13.42	0.06	0.04	9.83			
AV	996k	16.65	46.00	-29.35	9.93	Line	-	6.72	0.06	0.04	9.83			
QP	5.568M	28.96	60.00	-31.04	10.17	Line	-	18.79	0.16	0.13	9.88			
AV	5.568M	21.51	50.00	-28.49	10.17	Line	-	11.34	0.16	0.13	9.88			
QP	9.339M	29.39	60.00	-30.61	10.27	Line	-	19.12	0.21	0.16	9.90			
AV	9.339M	22.25	50.00	-27.75	10.27	Line	-	11.98	0.21	0.16	9.90			
QP	16.292M	29.64	60.00	-30.36	10.41	Line	-	19.23	0.29	0.18	9.94			
AV	16.292M	22.95	50.00	-27.05	10.41	Line	-	12.54	0.29	0.18	9.94			

Mode 1

27/08/2021



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	262.5k	35.06	61.35	-26.29	9.88	Neutral	"Worst"	25.18	0.03	0.04	9.81			
AV	262.5k	24.88	51.35	-26.47	9.88	Neutral	-	15.00	0.03	0.04	9.81			
QP	897k	24.12	56.00	-31.88	9.92	Neutral	-	14.20	0.05	0.04	9.83			
AV	897k	17.31	46.00	-28.69	9.92	Neutral	-	7.39	0.05	0.04	9.83			
QP	2.009M	21.67	56.00	-34.33	9.96	Neutral	-	11.71	0.07	0.07	9.82			
AV	2.009M	14.72	46.00	-31.28	9.96	Neutral	-	4.76	0.07	0.07	9.82			
QP	5.289M	29.72	60.00	-30.28	10.14	Neutral	-	19.58	0.13	0.13	9.88			
AV	5.289M	22.33	50.00	-27.67	10.14	Neutral	-	12.19	0.13	0.13	9.88			
QP	6.644M	24.20	60.00	-35.80	10.19	Neutral	-	14.01	0.16	0.14	9.89			
AV	6.644M	17.11	50.00	-32.89	10.19	Neutral	-	6.92	0.16	0.14	9.89			
QP	24.468M	24.08	60.00	-35.92	10.64	Neutral	-	13.44	0.36	0.27	10.01			
AV	24.468M	17.24	50.00	-32.76	10.64	Neutral	-	6.60	0.36	0.27	10.01			

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	8M	13.793M	13M8G1D	7.025M	12.894M
802.11g_Nss1,(6Mbps)_2TX	16.3M	16.892M	16M9D1D	15.925M	16.442M
802.11ax HEW20_Nss1,(MCS0)_2TX	18.875M	19.115M	19M1D1D	18.5M	18.916M
802.11ax HEW40_Nss1,(MCS0)_2TX	37.8M	37.931M	37M9D1D	37.3M	37.781M

Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

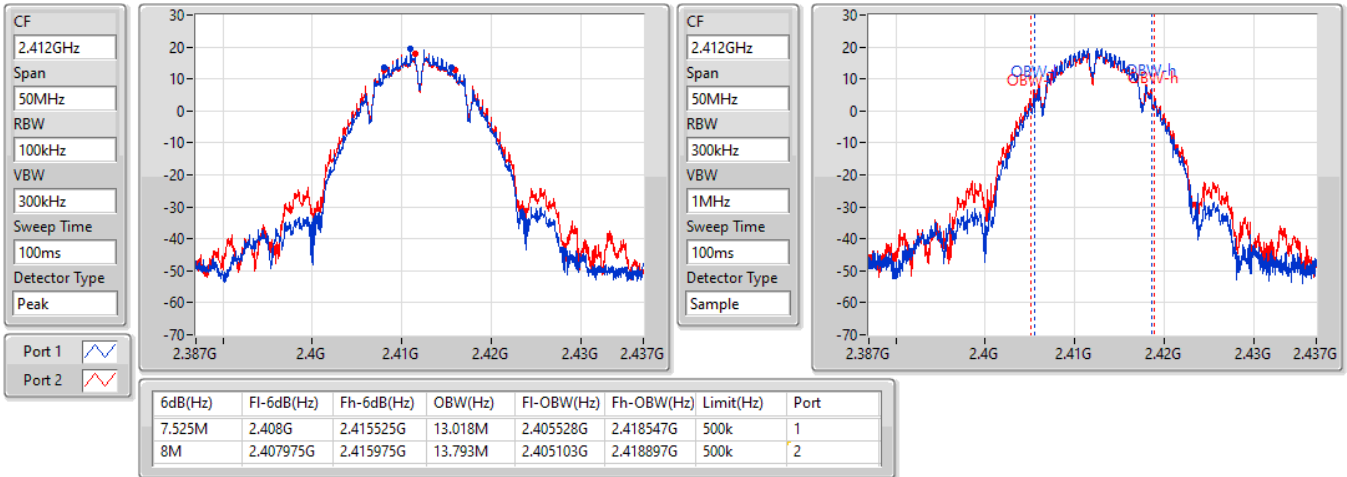
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	7.525M	13.018M	8M	13.793M
2437MHz	Pass	500k	7.55M	13.093M	7.025M	12.894M
2462MHz	Pass	500k	7.55M	13.168M	7.525M	13.118M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.05M	16.442M	16.3M	16.467M
2437MHz	Pass	500k	16.05M	16.892M	16.275M	16.617M
2462MHz	Pass	500k	16.3M	16.467M	15.925M	16.467M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	18.7M	18.916M	18.875M	18.941M
2437MHz	Pass	500k	18.7M	19.115M	18.5M	19.065M
2462MHz	Pass	500k	18.85M	18.966M	18.825M	18.941M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	37.8M	37.931M	37.5M	37.931M
2437MHz	Pass	500k	37.65M	37.931M	37.3M	37.781M
2452MHz	Pass	500k	37.7M	37.931M	37.6M	37.881M

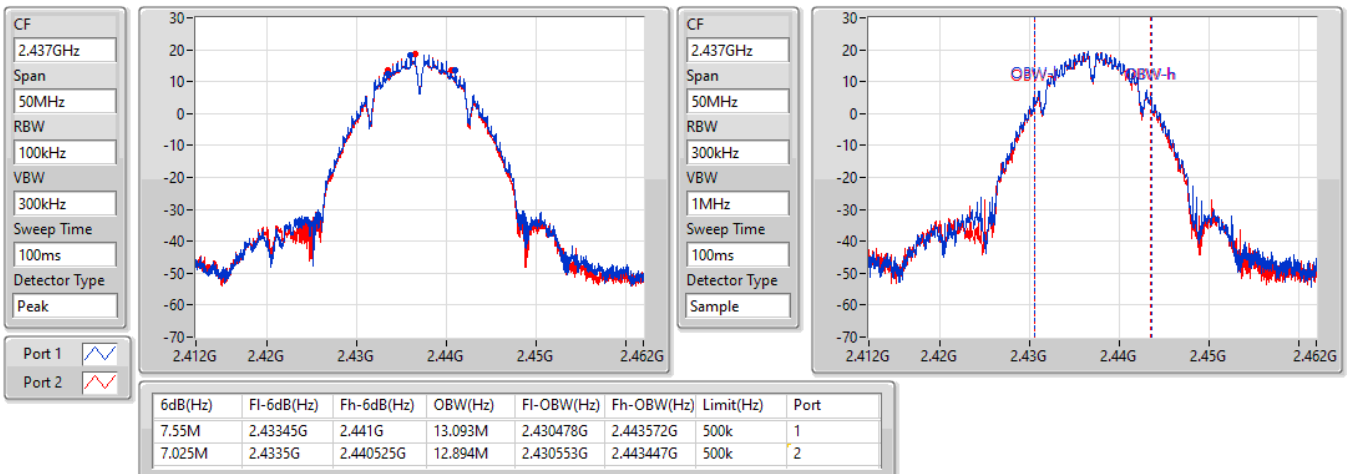
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

802.11b_Nss1,(1Mbps)_2TX
EBW
2412MHz

14/08/2021

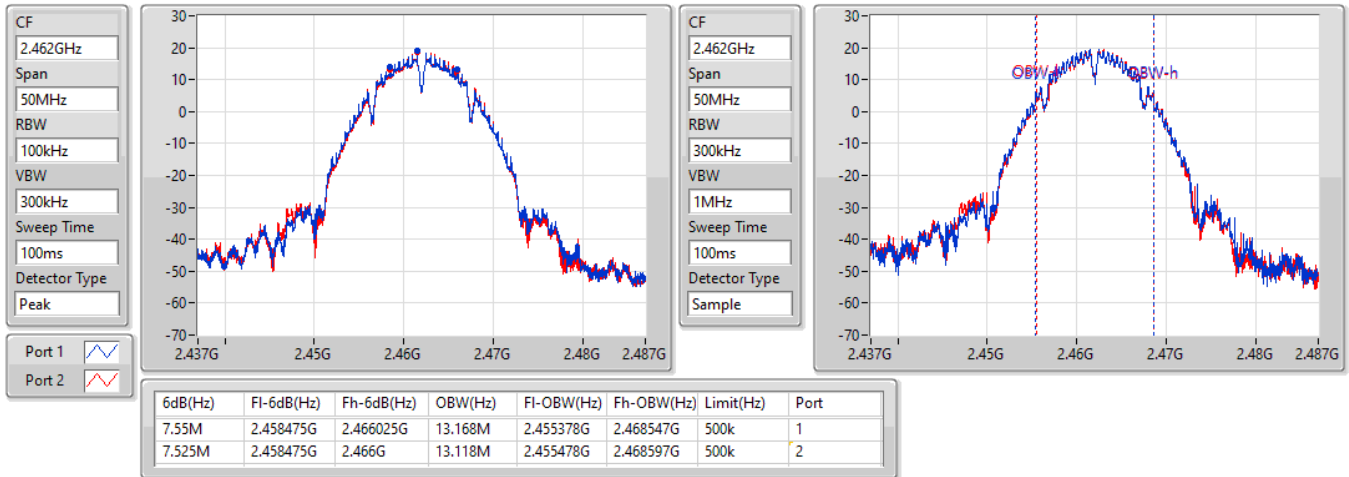

802.11b_Nss1,(1Mbps)_2TX
EBW
2437MHz

14/08/2021

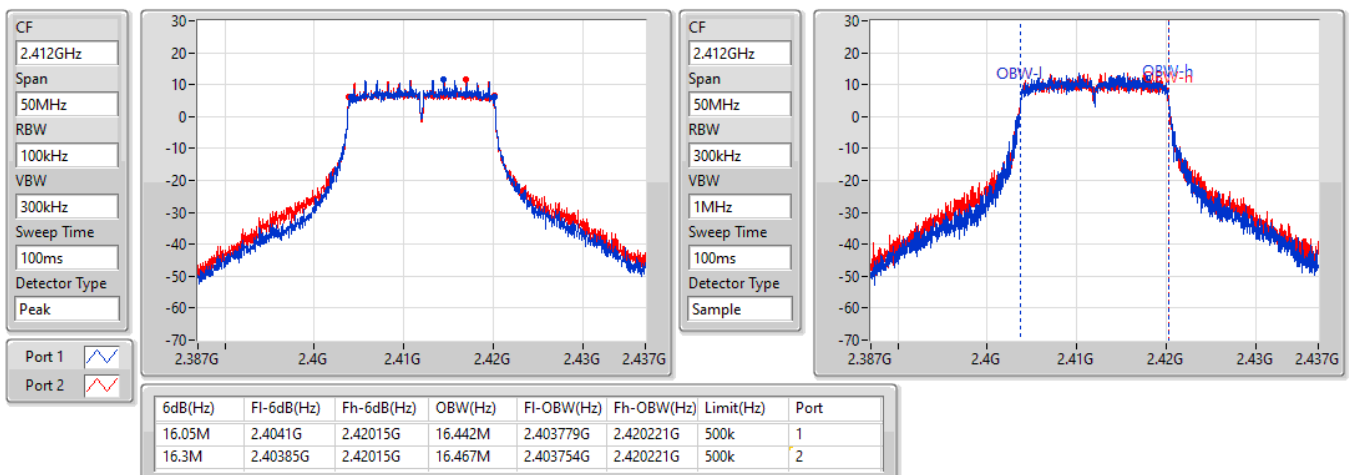


802.11b_Nss1,(1Mbps)_2TX
EBW
2462MHz

14/08/2021

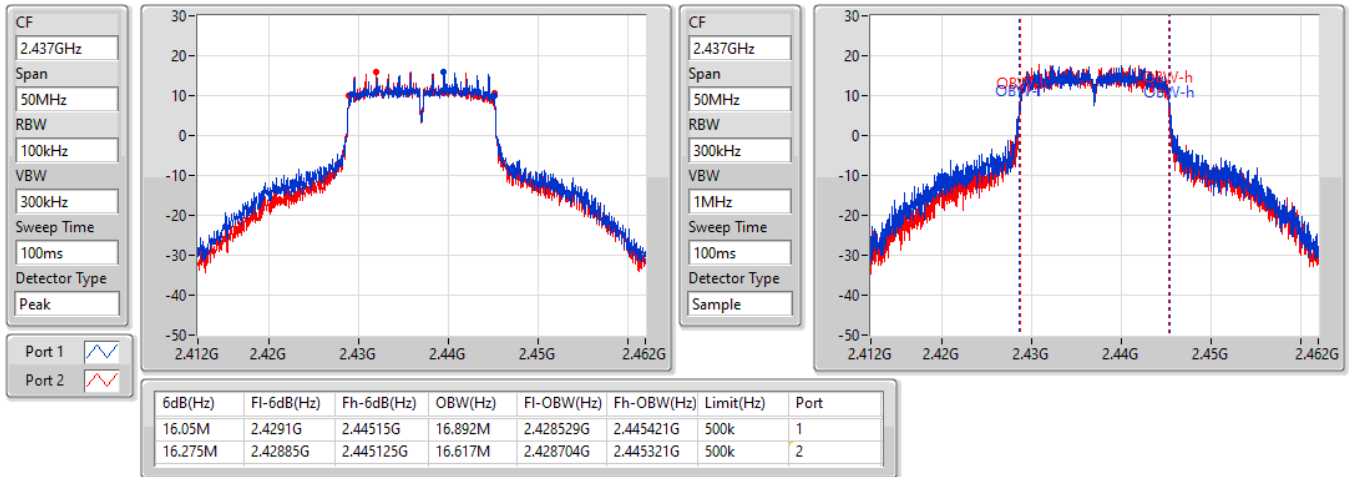

802.11g_Nss1,(6Mbps)_2TX
EBW
2412MHz

14/08/2021

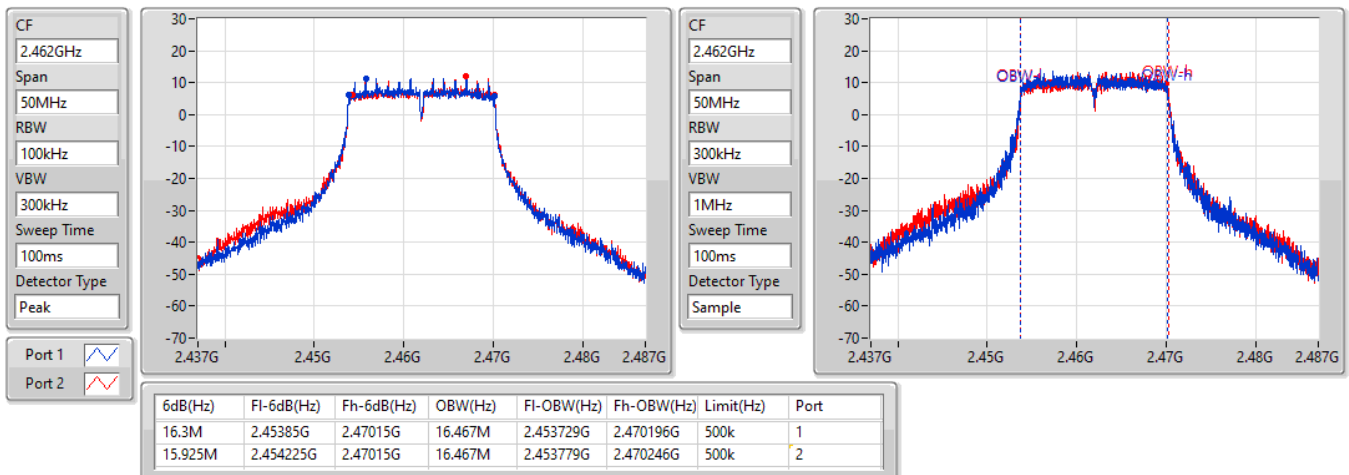


802.11g_Nss1,(6Mbps)_2TX
EBW
2437MHz

14/08/2021

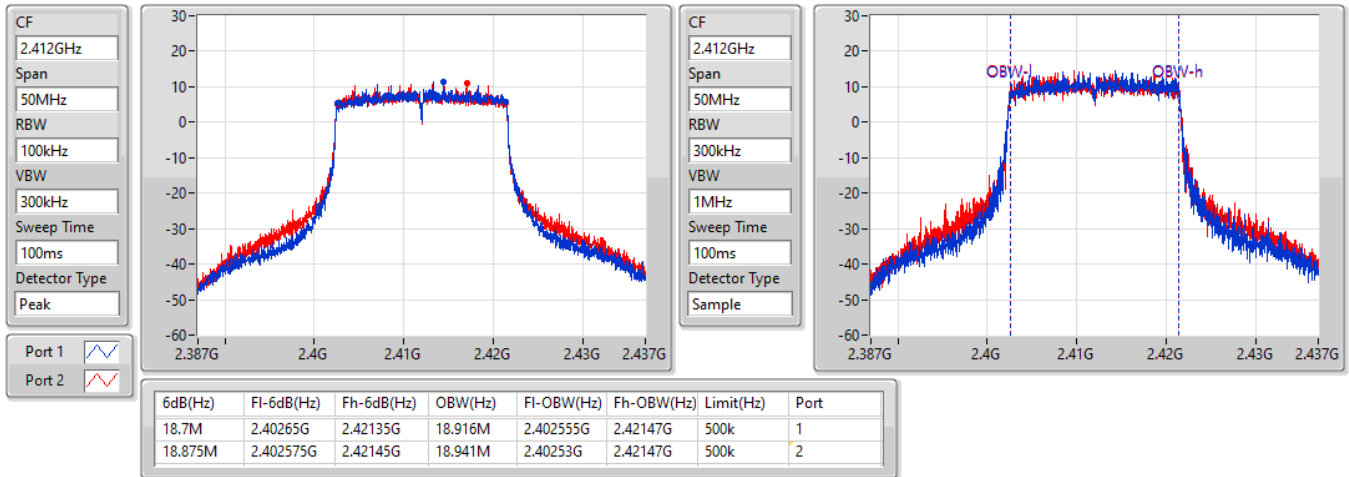

802.11g_Nss1,(6Mbps)_2TX
EBW
2462MHz

14/08/2021

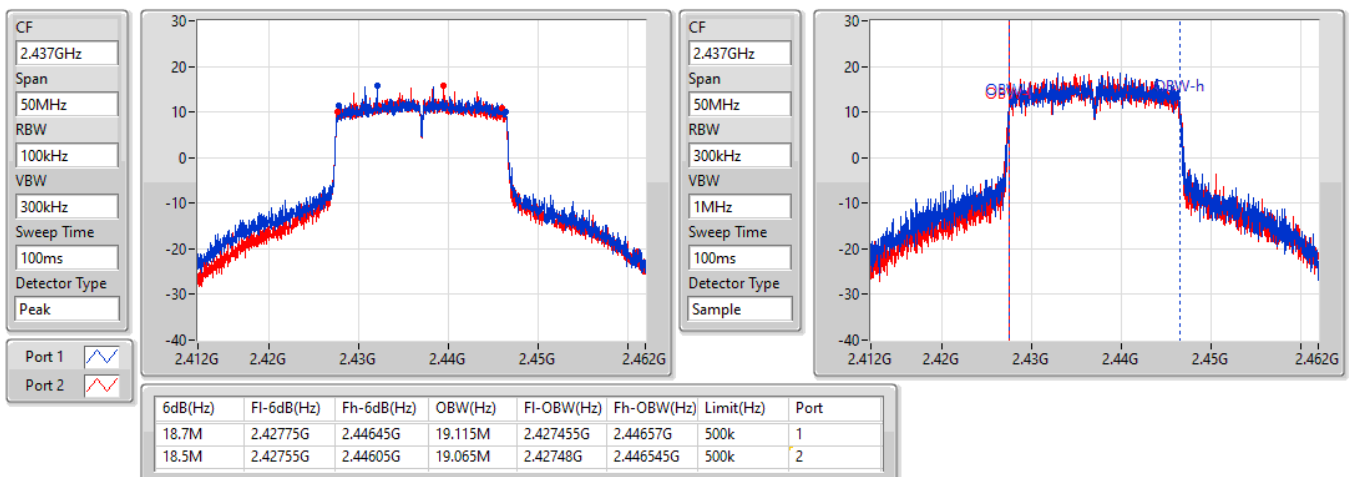


802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
2412MHz

14/08/2021

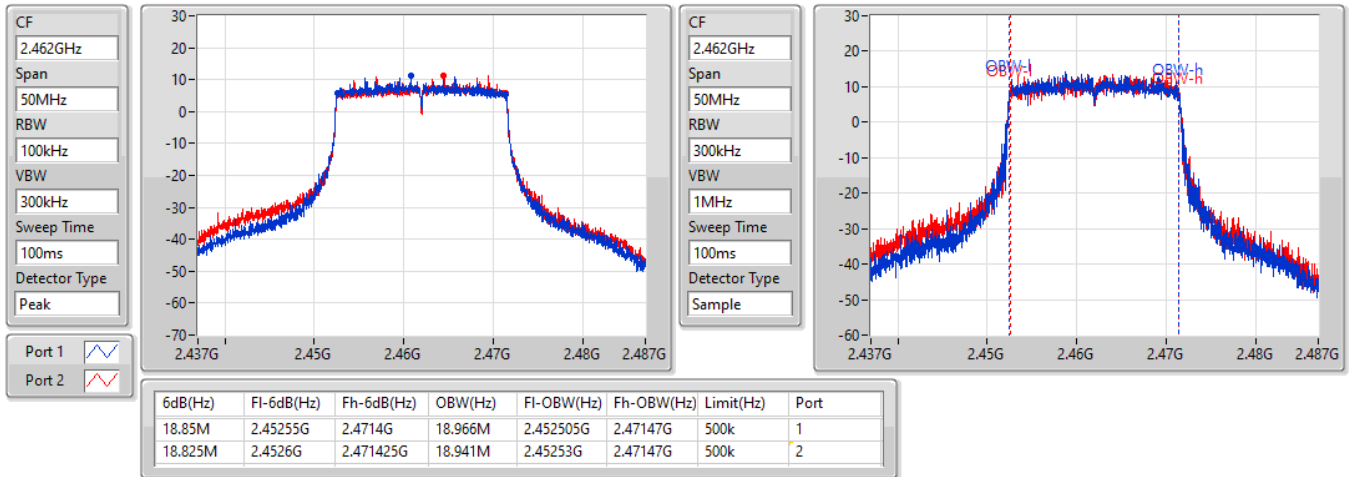

802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
2437MHz

14/08/2021

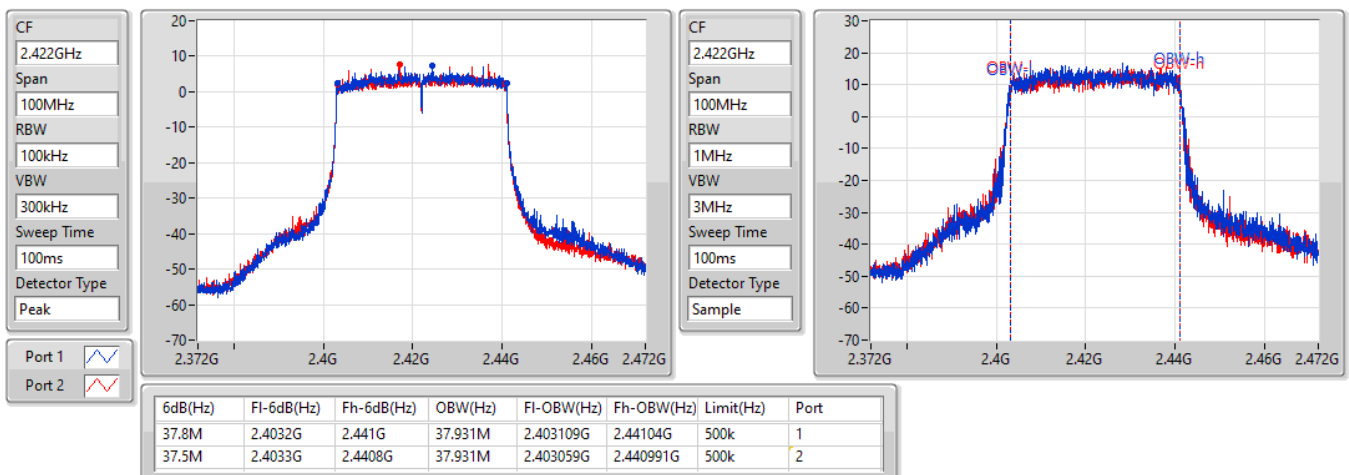


802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
2462MHz

14/08/2021

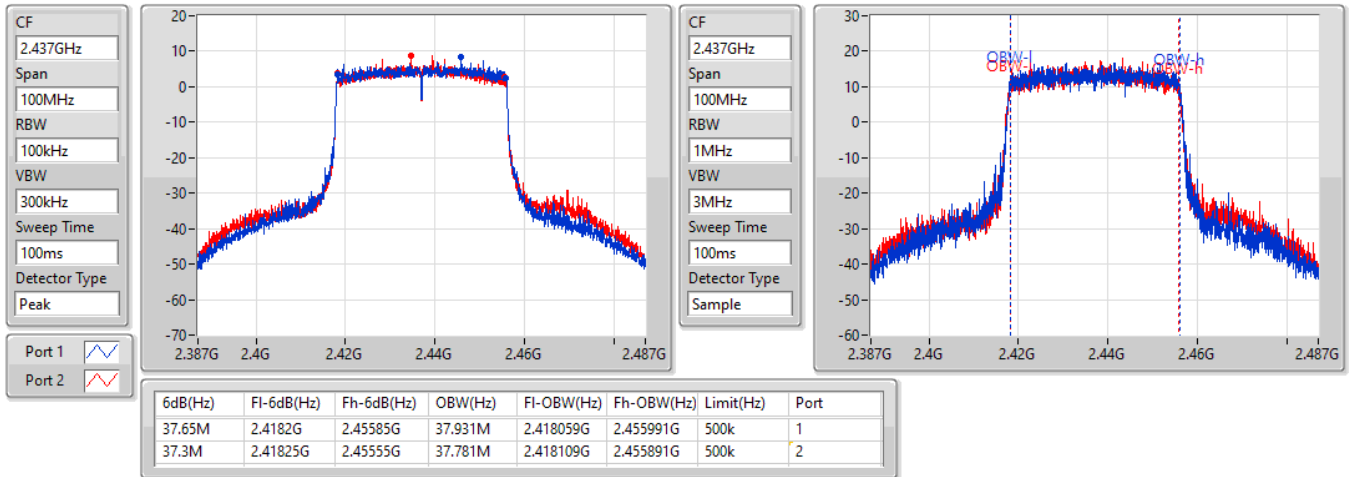

802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
2422MHz

14/08/2021

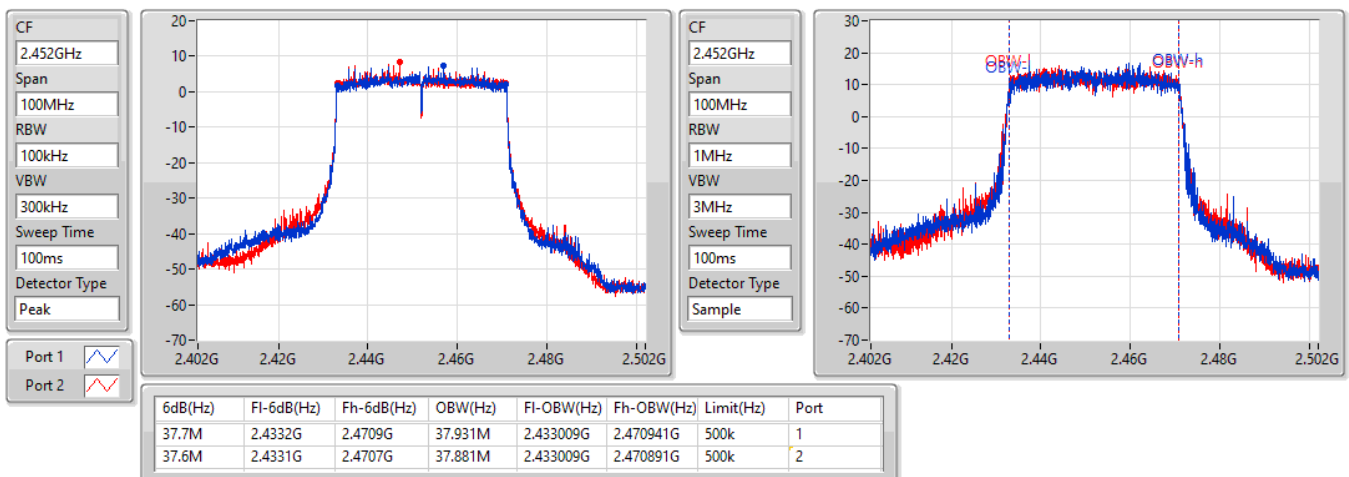


802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
2437MHz

14/08/2021


802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
2452MHz

14/08/2021





Average Power

Appendix C.1

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	29.92	0.98175
802.11g_Nss1,(6Mbps)_2TX	29.66	0.92470
802.11ax HEW20_Nss1,(MCS0)_2TX	29.74	0.94189
802.11ax HEW40_Nss1,(MCS0)_2TX	25.77	0.37757

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.20	26.95	26.74	29.86	30.00
2437MHz	Pass	2.20	26.84	26.97	29.92	30.00
2462MHz	Pass	2.20	26.83	26.90	29.88	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.20	22.69	22.43	25.57	30.00
2417MHz	Pass	2.20	23.41	23.45	26.44	30.00
2437MHz	Pass	2.20	26.72	26.58	29.66	30.00
2457MHz	Pass	2.20	23.66	23.22	26.46	30.00
2462MHz	Pass	2.20	22.65	22.56	25.62	30.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.20	22.80	22.67	25.75	30.00
2417MHz	Pass	2.20	23.33	23.12	26.24	30.00
2437MHz	Pass	2.20	26.79	26.66	29.74	30.00
2457MHz	Pass	2.20	23.22	22.97	26.11	30.00
2462MHz	Pass	2.20	22.74	22.65	25.71	30.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	2.20	22.06	21.84	24.96	30.00
2437MHz	Pass	2.20	22.89	22.62	25.77	30.00
2452MHz	Pass	2.20	21.77	21.88	24.84	30.00

DG = Directional Gain; Port X = Port X output power



Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	29.74	0.94189
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	25.77	0.37757

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.01	22.8	22.67	25.75	30.00
2417MHz	Pass	5.01	23.33	23.12	26.24	30.00
2437MHz	Pass	5.01	26.79	26.66	29.74	30.00
2457MHz	Pass	5.01	23.22	22.97	26.11	30.00
2462MHz	Pass	5.01	22.74	22.65	25.71	30.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	5.01	22.06	21.84	24.96	30.00
2437MHz	Pass	5.01	22.89	22.62	25.77	30.00
2452MHz	Pass	5.01	21.77	21.88	24.84	30.00

DG = Directional Gain; Port X = Port X output power

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	5.71
802.11g_Nss1,(6Mbps)_2TX	1.43
802.11ax HEW20_Nss1,(MCS0)_2TX	3.08
802.11ax HEW40_Nss1,(MCS0)_2TX	-4.16

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.01	2.39	4.98	5.45	8.00
2437MHz	Pass	5.01	2.87	2.68	5.71	8.00
2462MHz	Pass	5.01	3.67	3.91	5.22	8.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.01	-5.11	-5.22	-3.33	8.00
2437MHz	Pass	5.01	-1.55	-0.88	1.43	8.00
2462MHz	Pass	5.01	-3.92	-5.52	-2.32	8.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.01	-3.47	-4.42	-2.75	8.00
2437MHz	Pass	5.01	0.36	0.97	3.08	8.00
2462MHz	Pass	5.01	-3.67	-3.06	-2.31	8.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	5.01	-6.33	-7.62	-5.07	8.00
2437MHz	Pass	5.01	-6.63	-4.82	-4.16	8.00
2452MHz	Pass	5.01	-7.56	-6.57	-5.09	8.00

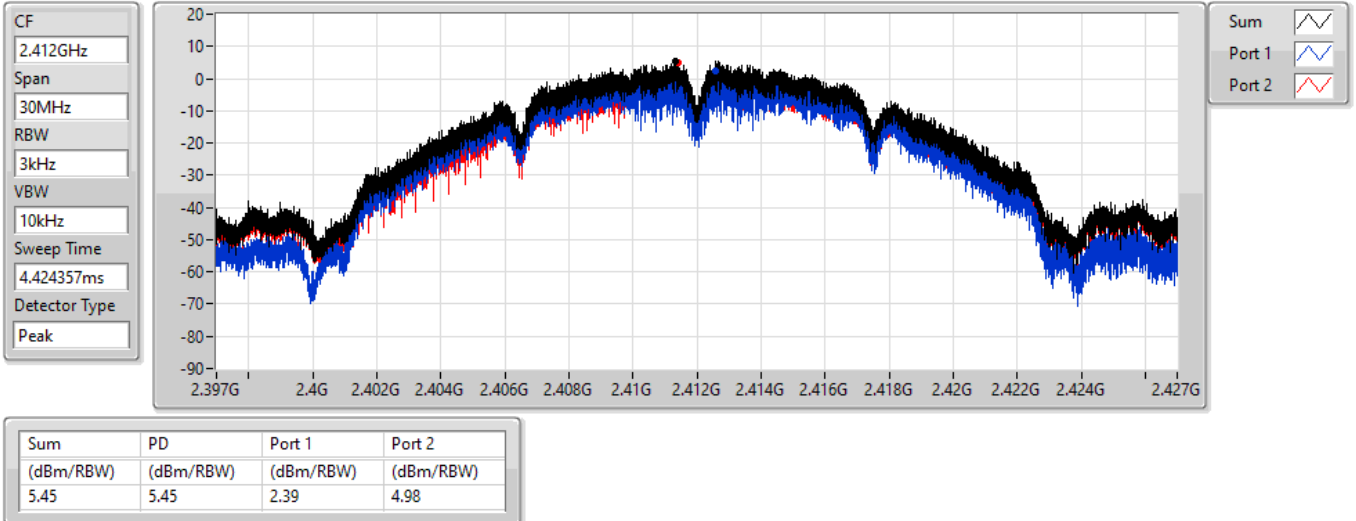
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11b_Nss1,(1Mbps)_2TX

PSD

2412MHz

14/08/2021

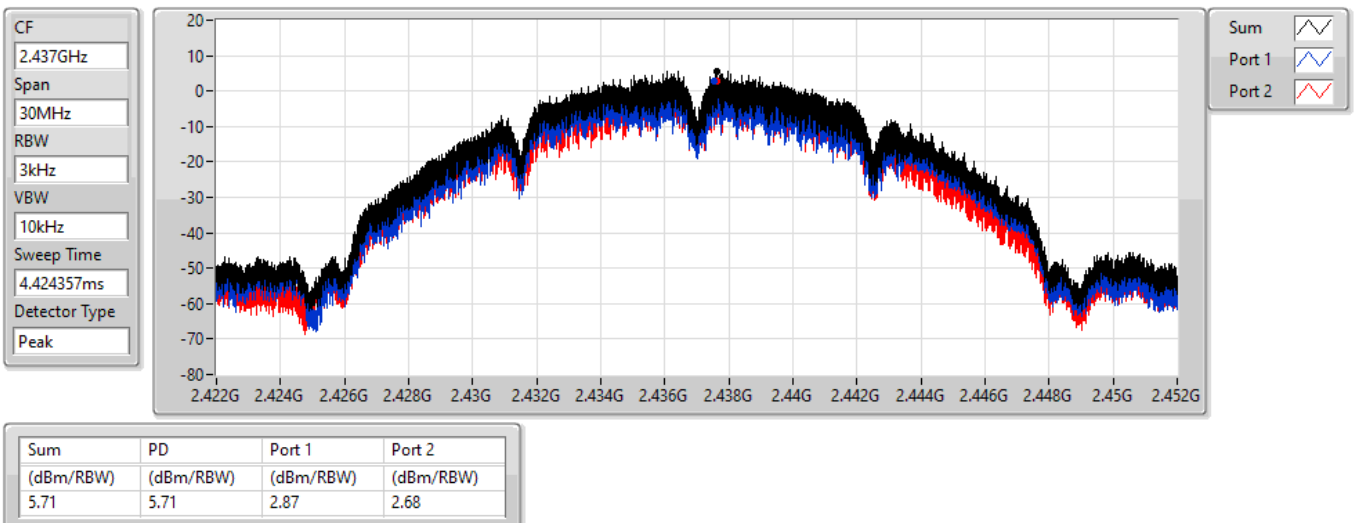


802.11b_Nss1,(1Mbps)_2TX

PSD

2437MHz

14/08/2021

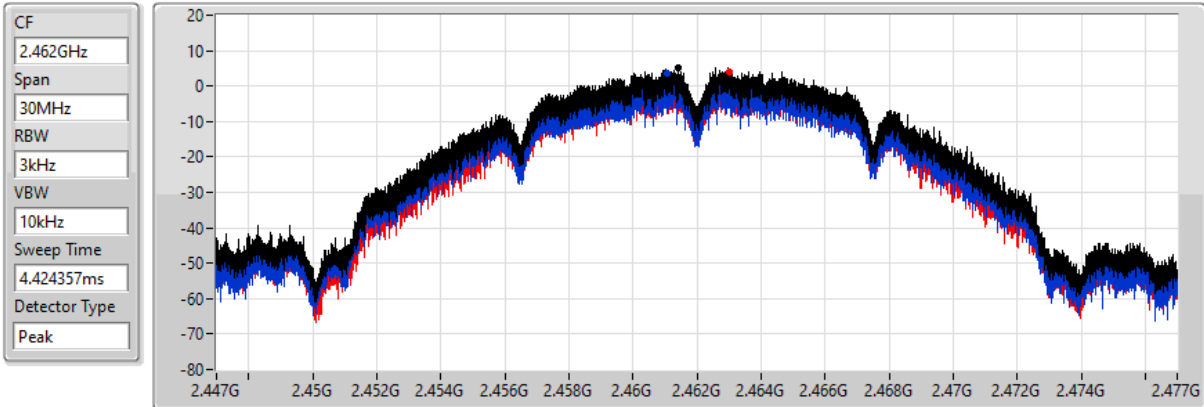


802.11b_Nss1,(1Mbps)_2TX

PSD

2462MHz

14/08/2021



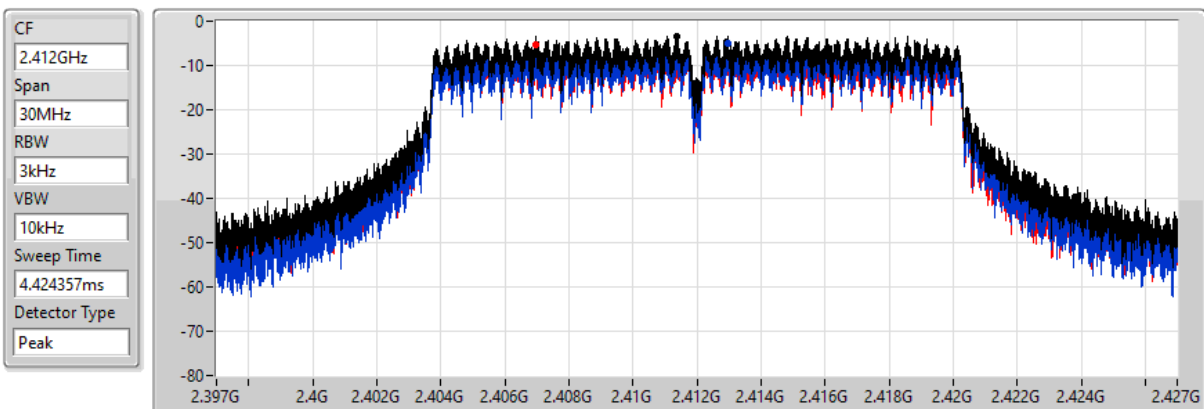
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.22	5.22	3.67	3.91

802.11g_Nss1,(6Mbps)_2TX

PSD

2412MHz

14/08/2021



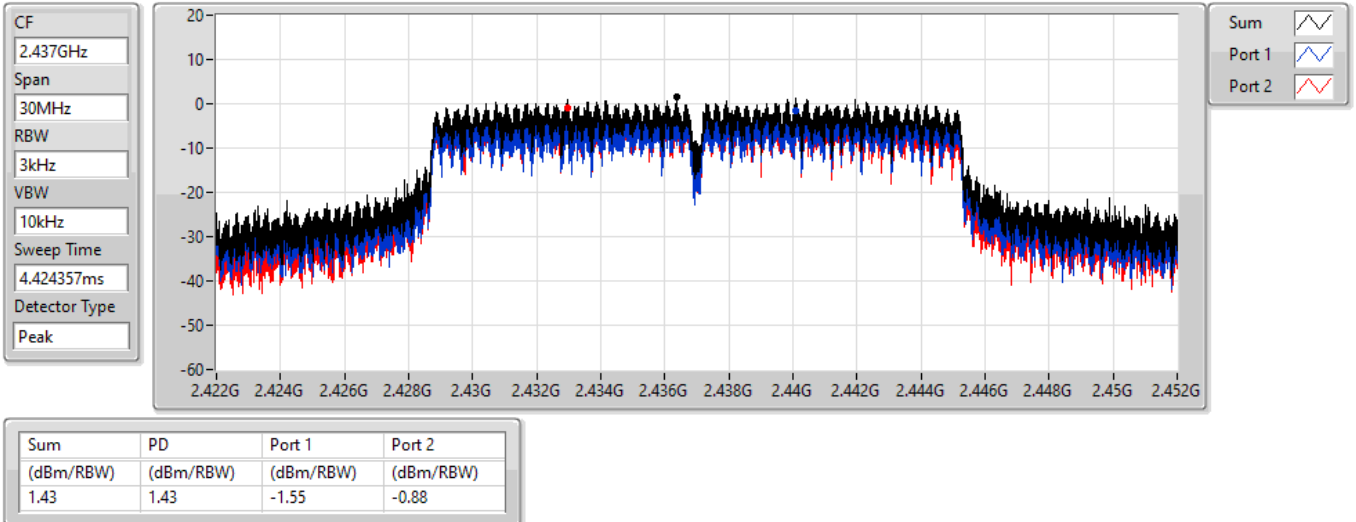
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.33	-3.33	-5.11	-5.22

802.11g_Nss1,(6Mbps)_2TX

PSD

2437MHz

14/08/2021

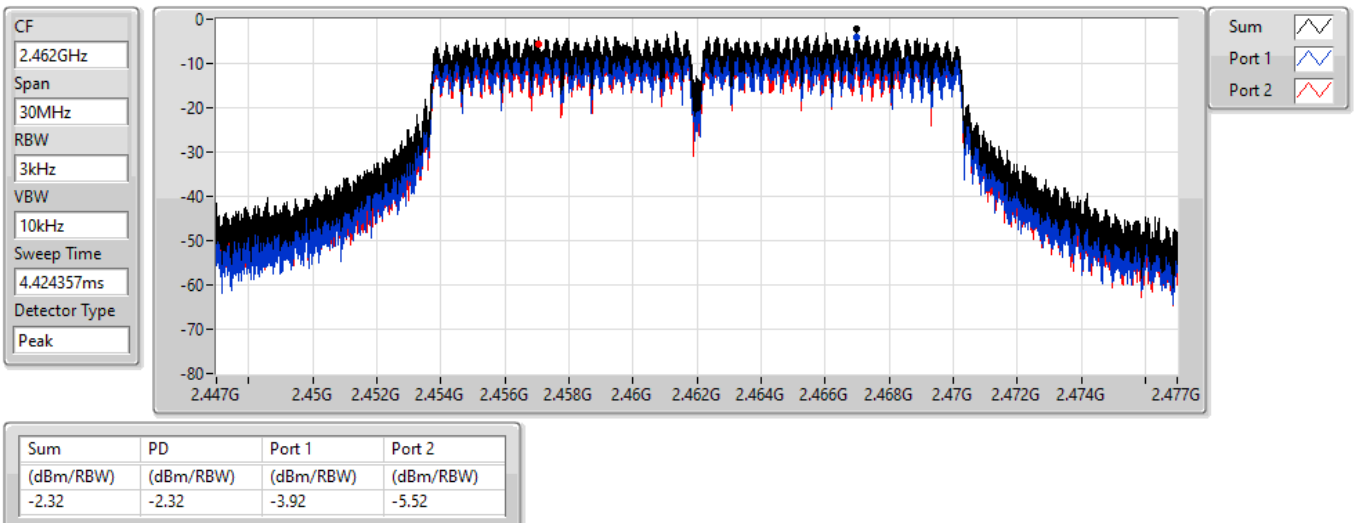


802.11g_Nss1,(6Mbps)_2TX

PSD

2462MHz

14/08/2021

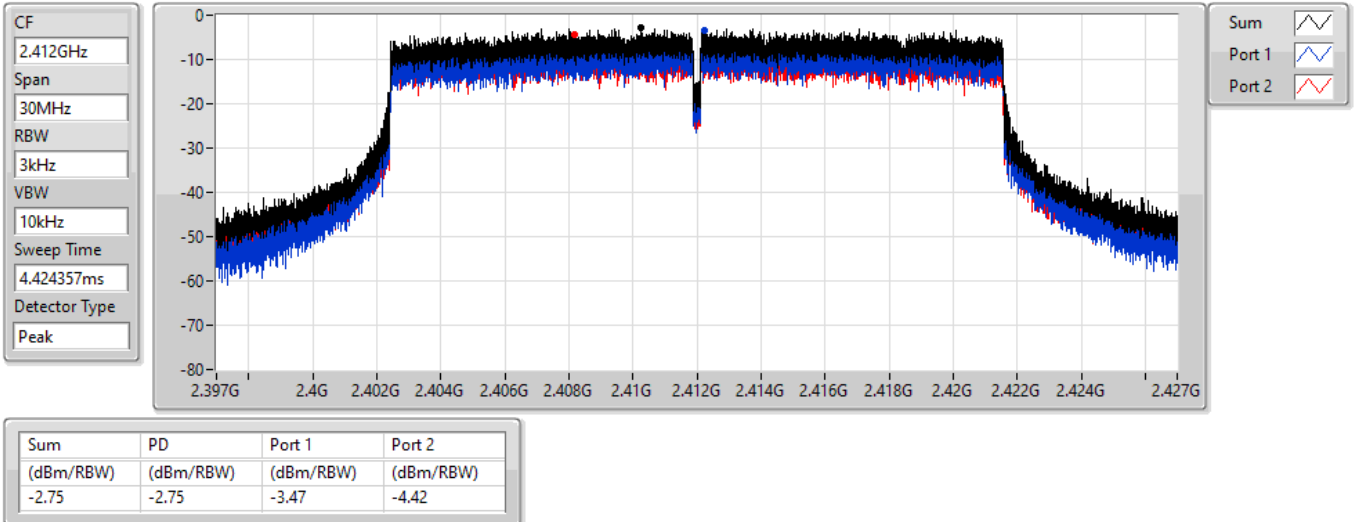


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

2412MHz

14/08/2021

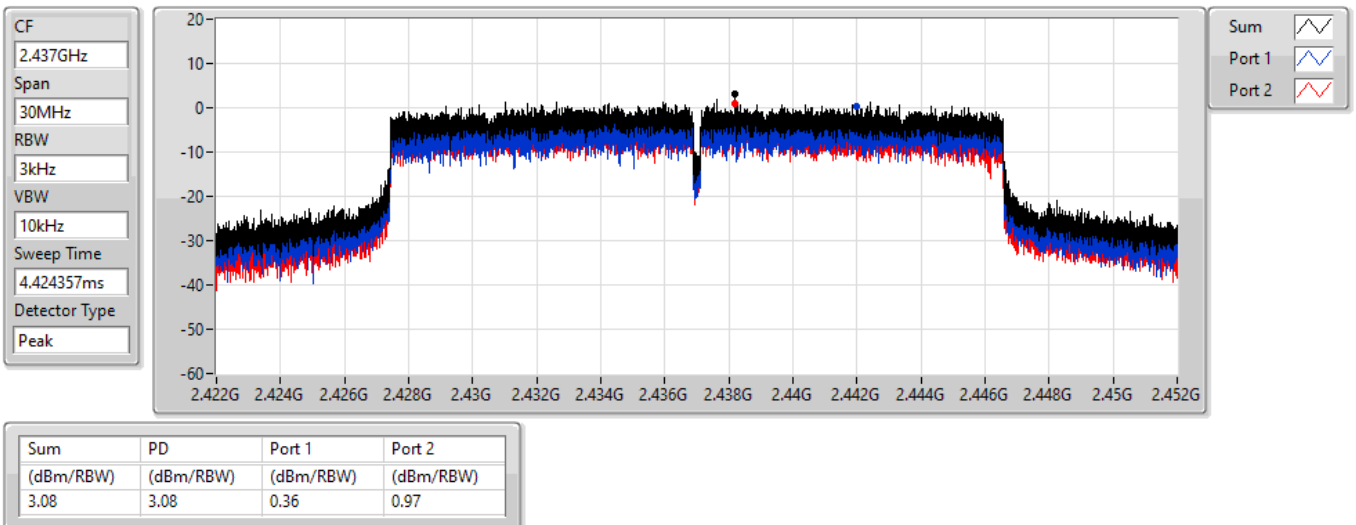


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

2437MHz

14/08/2021

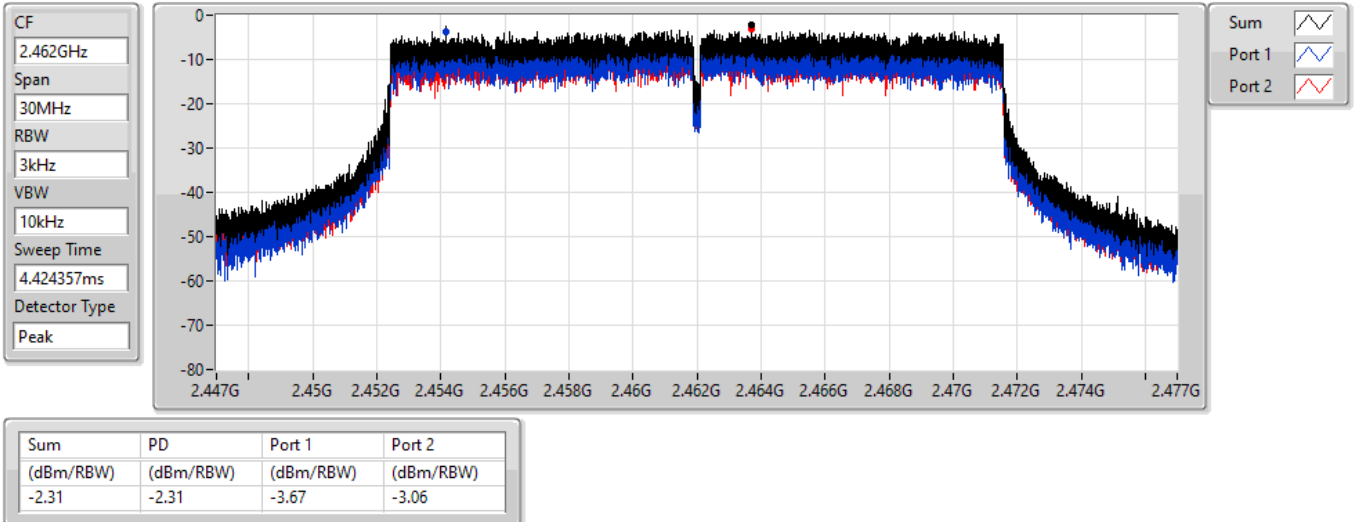


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

2462MHz

14/08/2021

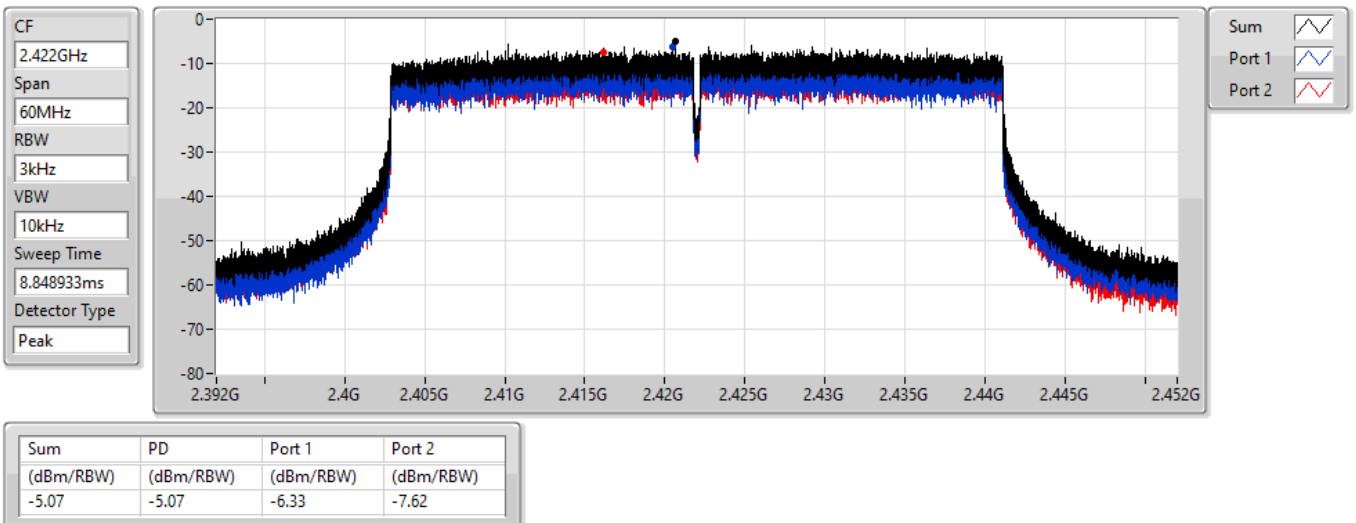


802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

2422MHz

14/08/2021

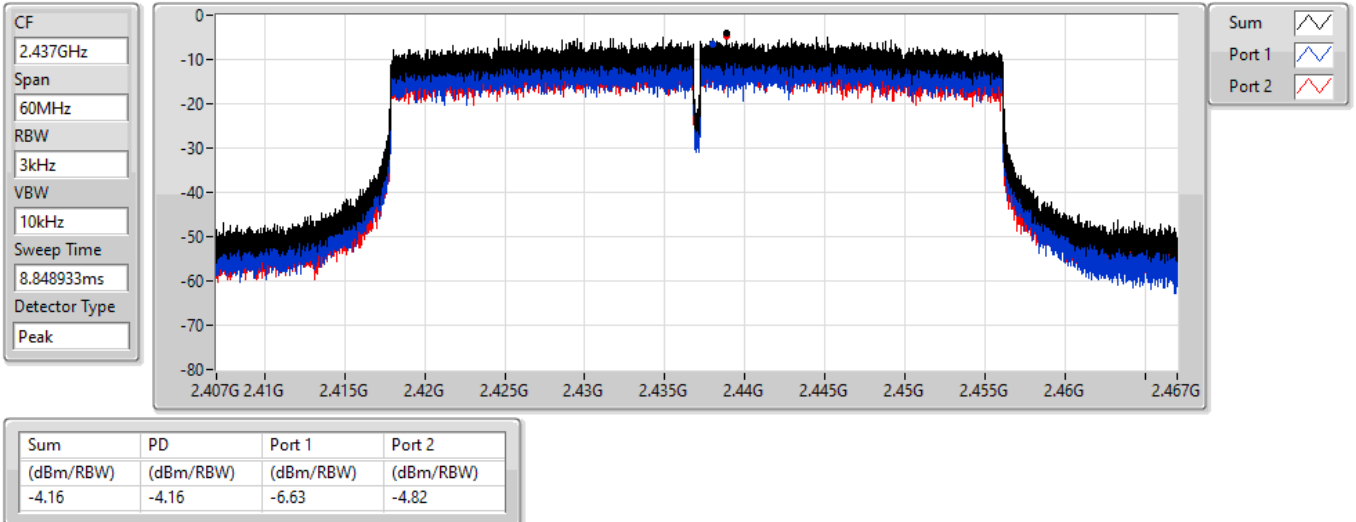


802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

2437MHz

14/08/2021

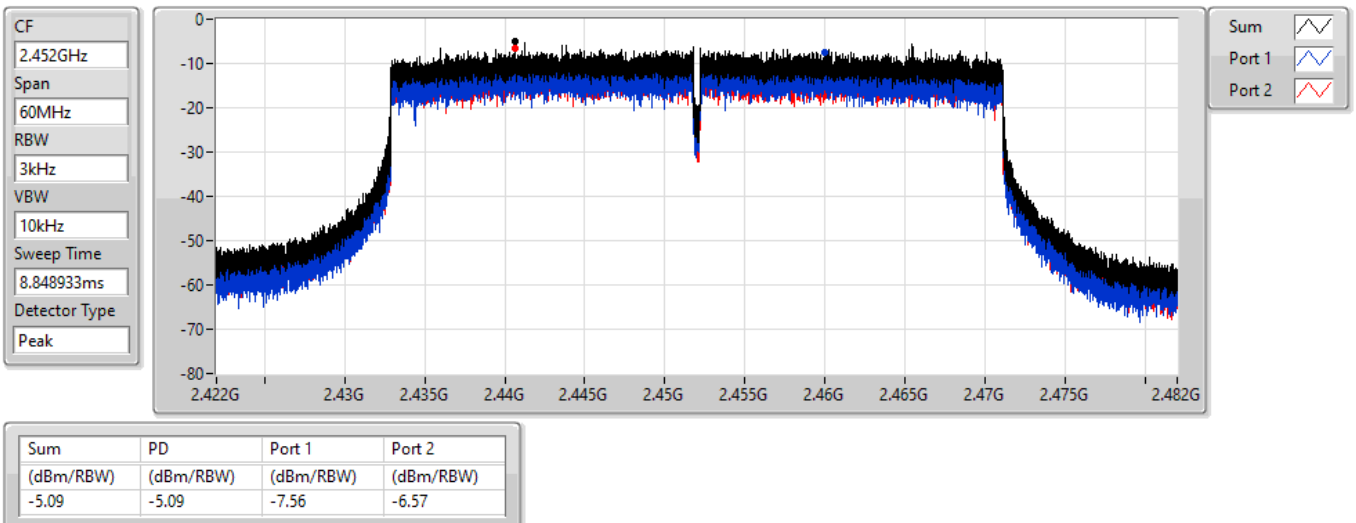


802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

2452MHz

14/08/2021



Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1(1Mbps)_2TX	Pass	2.43653G	18.81	-11.19	159.9M	-51.34	2.3995G	-24.22	2.4G	-30.65	2.48404G	-51.65	24.80052G	-46.45	2
802.11g_Nss1(6Mbps)_2TX	Pass	2.43198G	16.10	-13.90	159.9M	-52.05	2.3994G	-24.49	2.4G	-25.72	2.48366G	-50.08	6.69008G	-45.42	2
802.11ax HEW20_Nss1(MCS0)_2TX	Pass	2.44196G	15.94	-14.06	2.13312G	-51.67	2.3999G	-20.67	2.4G	-23.54	2.48504G	-51.43	16.83822G	-45.96	2
802.11ax HEW40_Nss1(MCS0)_2TX	Pass	2.43202G	8.66	-21.34	159.96M	-51.99	2.39976G	-32.39	2.4G	-30.96	2.48434G	-51.41	24.48116G	-46.40	1

Result

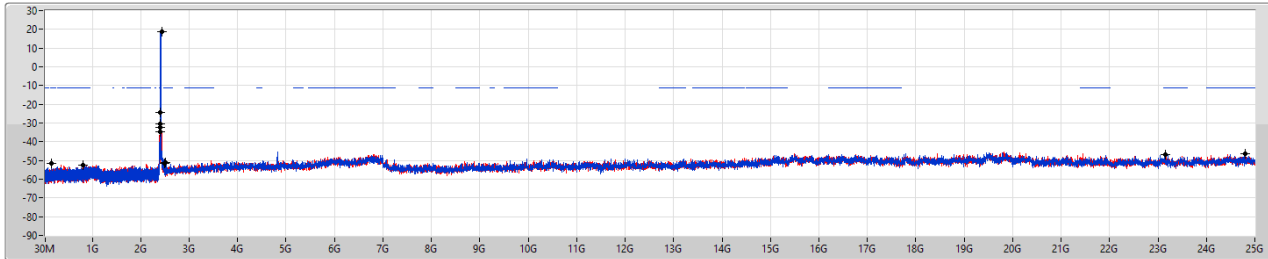
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43653G	18.81	-11.19	806.47M	-52.65	2.39922G	-32.21	2.4G	-34.72	2.5147G	-51.11	23.1485G	-47.01	1
2412MHz	Pass	2.43653G	18.81	-11.19	159.9M	-51.34	2.3995G	-24.22	2.4G	-30.65	2.48404G	-51.65	24.80052G	-46.45	2
2437MHz	Pass	2.43653G	18.81	-11.19	938.41M	-52.66	2.39912G	-49.16	2.4G	-51.56	2.48454G	-50.30	16.82417G	-45.78	1
2437MHz	Pass	2.43653G	18.81	-11.19	159.9M	-52.92	2.39924G	-48.38	2.4G	-50.36	2.48384G	-50.32	6.97385G	-45.75	2
2462MHz	Pass	2.43653G	18.81	-11.19	870.26M	-52.47	2.39754G	-50.77	2.4835G	-47.29	2.48352G	-47.27	16.45893G	-46.63	1
2462MHz	Pass	2.43653G	18.81	-11.19	954.43M	-52.32	2.39812G	-50.85	2.4835G	-47.12	2.48352G	-47.72	24.42966G	-46.13	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43198G	16.10	-13.90	596.19M	-52.86	2.39954G	-28.16	2.4G	-29.44	2.48504G	-51.22	6.61984G	-46.46	1
2412MHz	Pass	2.43198G	16.10	-13.90	159.9M	-52.05	2.3994G	-24.49	2.4G	-25.72	2.48366G	-50.08	6.69008G	-45.42	2
2437MHz	Pass	2.43198G	16.10	-13.90	159.9M	-51.75	2.39984G	-37.16	2.4G	-39.78	2.48364G	-45.92	17.4198G	-46.82	1
2437MHz	Pass	2.43198G	16.10	-13.90	1.97235G	-52.22	2.39984G	-37.59	2.4G	-40.85	2.48486G	-46.38	16.40836G	-46.28	2
2462MHz	Pass	2.43198G	16.10	-13.90	908.99M	-52.77	2.39556G	-50.89	2.4835G	-43.47	2.48356G	-41.57	6.85023G	-46.38	1
2462MHz	Pass	2.43198G	16.10	-13.90	692.89M	-53.24	2.39982G	-51.40	2.4835G	-43.99	2.48352G	-42.12	24.47742G	-46.49	2
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44196G	15.94	-14.06	870.55M	-52.26	2.39996G	-26.67	2.4G	-27.81	2.48456G	-50.72	16.44488G	-45.94	1
2412MHz	Pass	2.44196G	15.94	-14.06	2.13312G	-51.67	2.3999G	-20.67	2.4G	-23.54	2.48504G	-51.43	16.83822G	-45.96	2
2437MHz	Pass	2.44196G	15.94	-14.06	959.96M	-51.73	2.39922G	-32.75	2.4G	-36.32	2.4849G	-42.73	16.72022G	-46.55	1
2437MHz	Pass	2.44196G	15.94	-14.06	159.9M	-52.05	2.39902G	-36.34	2.4G	-38.18	2.48364G	-45.43	6.78842G	-45.42	2
2462MHz	Pass	2.44196G	15.94	-14.06	159.9M	-51.86	2.39806G	-50.29	2.4835G	-38.86	2.48356G	-40.79	23.16255G	-46.13	1
2462MHz	Pass	2.44196G	15.94	-14.06	949.48M	-51.81	2.39818G	-50.67	2.4835G	-40.65	2.48354G	-39.21	6.74627G	-46.49	2
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.43202G	8.66	-21.34	159.96M	-51.99	2.39976G	-32.39	2.4G	-30.96	2.48434G	-51.41	24.48116G	-46.40	1
2422MHz	Pass	2.43202G	8.66	-21.34	159.96M	-51.57	2.4G	-31.36	2.4G	-31.16	2.4835G	-51.52	6.75632G	-46.42	2
2437MHz	Pass	2.43202G	8.66	-21.34	159.96M	-51.92	2.39948G	-35.99	2.4G	-38.65	2.4841G	-44.44	6.95544G	-46.09	1
2437MHz	Pass	2.43202G	8.66	-21.34	2.12134G	-52.23	2.4G	-35.98	2.4G	-37.62	2.48362G	-41.92	17.09113G	-46.41	2
2452MHz	Pass	2.43202G	8.66	-21.34	159.96M	-51.81	2.39896G	-48.88	2.4835G	-41.88	2.48374G	-38.96	17.54828G	-45.88	1
2452MHz	Pass	2.43202G	8.66	-21.34	2.0973G	-52.06	2.39988G	-46.41	2.4835G	-38.10	2.48398G	-36.98	24.46433G	-46.18	2

802.11b_Nss1,(1Mbps)_2TX

2412MHz

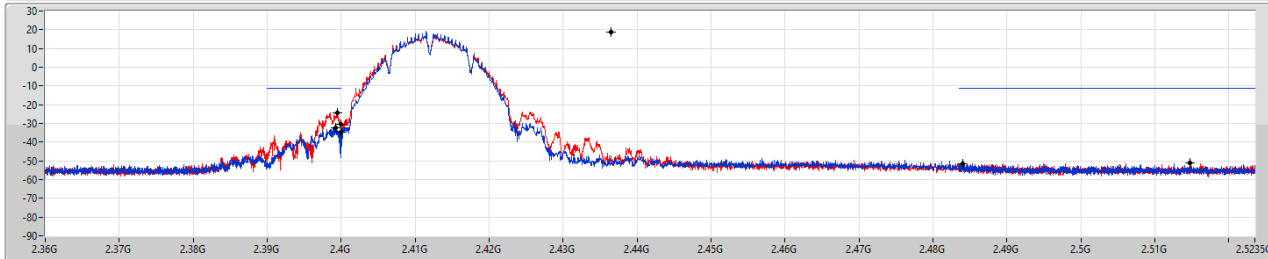
CSENdB

14/08/2021



Port 1
Port 2

RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak



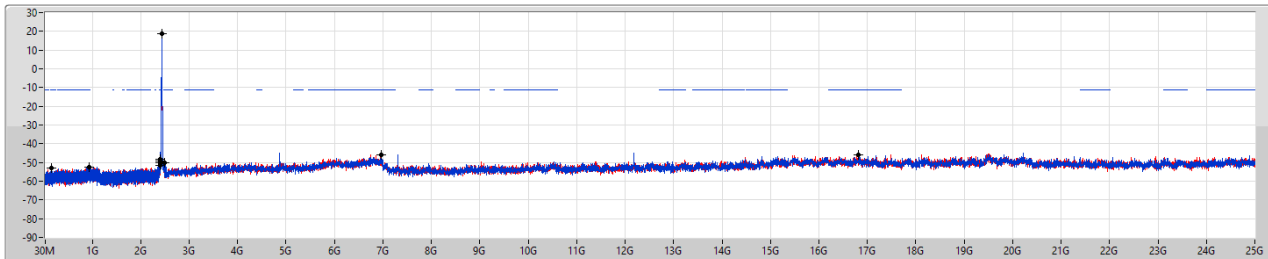
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43653G	18.81	-11.19	806.47M	-52.65	2.39922G	-32.21	2.4G	-34.72	2.5147G	-51.11	23.1485G	-47.01	1
2.43653G	18.81	-11.19	159.9M	-51.34	2.3995G	-24.22	2.4G	-30.65	2.48404G	-51.65	24.80052G	-46.45	2

802.11b_Nss1,(1Mbps)_2TX

2437MHz

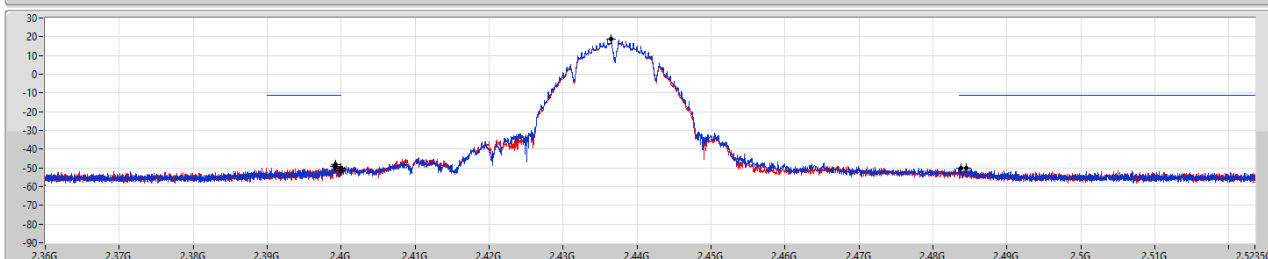
CSENdB

14/08/2021



Port 1
Port 2

RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak



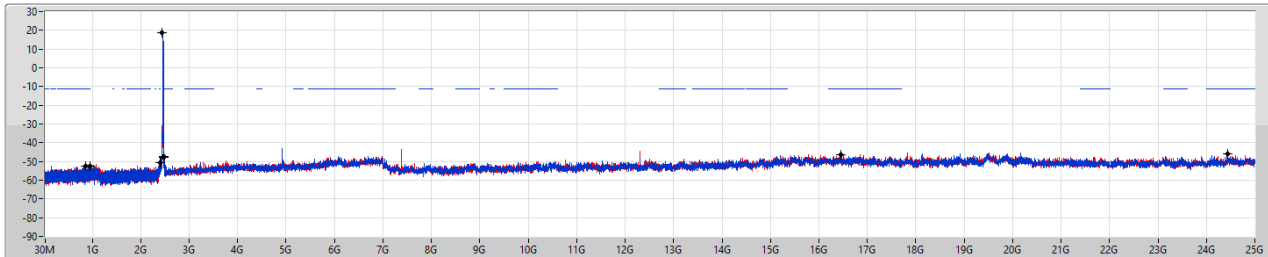
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43653G	18.81	-11.19	938.41M	-52.66	2.39912G	-49.16	2.4G	-51.56	2.48454G	-50.30	16.82417G	-45.78	1
2.43653G	18.81	-11.19	159.9M	-52.92	2.39924G	-48.38	2.4G	-50.36	2.48384G	-50.32	6.97385G	-45.75	2

802.11b_Nss1,(1Mbps)_2TX

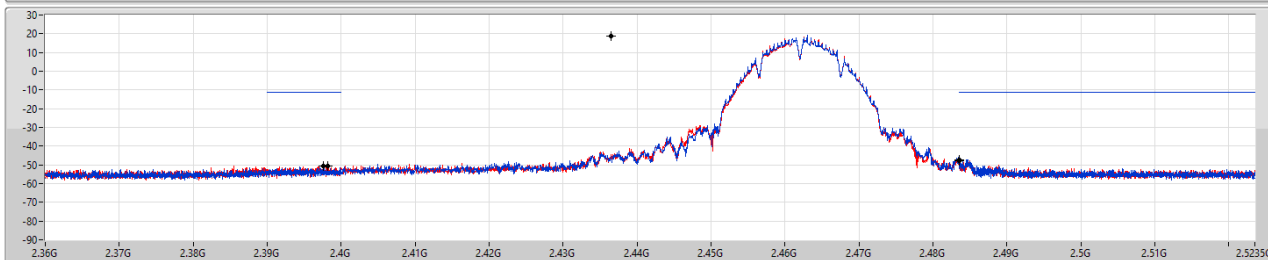
2462MHz

CSEndB

14/08/2021



Port 1
Port 2



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

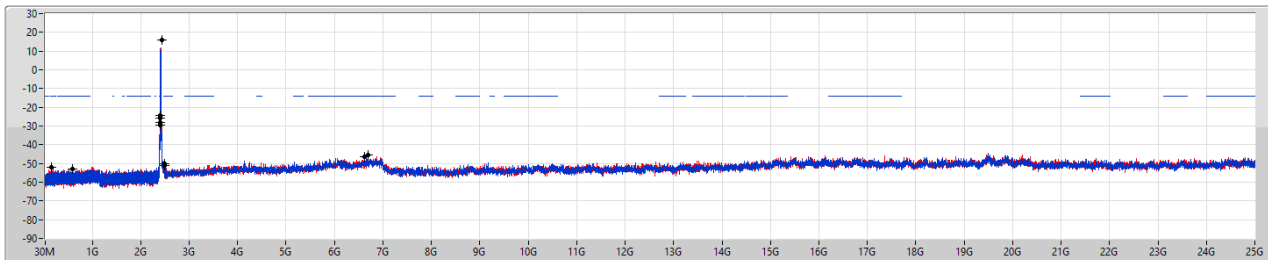
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2.43653G	18.81	-11.19	870.26M	-52.47	2.39754G	-50.77	2.4835G	-47.29	2.48352G	-47.27	16.45893G	-46.63	1
2.43653G	18.81	-11.19	954.43M	-52.32	2.39812G	-50.85	2.4835G	-47.12	2.48352G	-47.72	24.42966G	-46.13	2

802.11g_Nss1,(6Mbps)_2TX

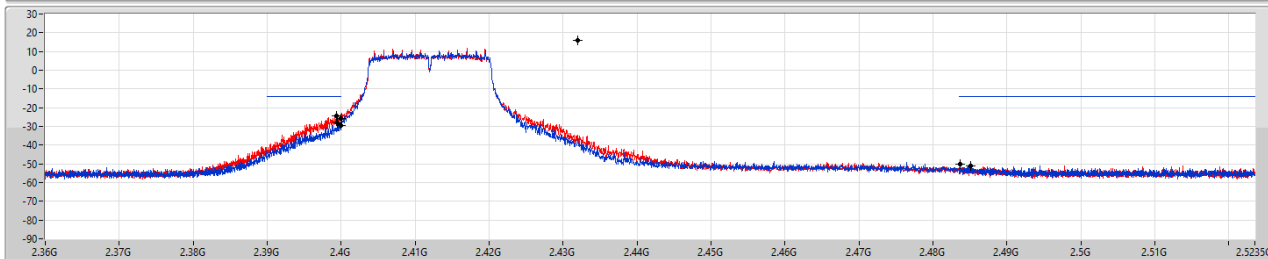
2412MHz

CSEndB

14/08/2021



Port 1
Port 2



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

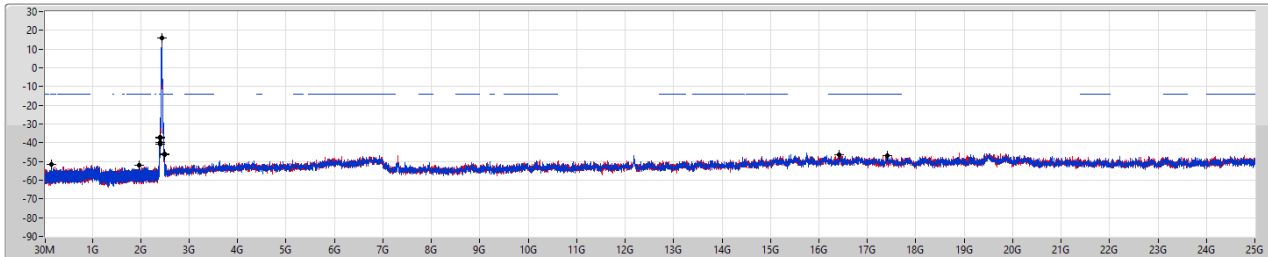
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43198G	16.10	-13.90	596.19M	-52.86	2.39954G	-28.16	2.4G	-29.44	2.48504G	-51.22	6.61984G	-46.46	1
2.43198G	16.10	-13.90	159.9M	-52.05	2.3994G	-24.49	2.4G	-25.72	2.48366G	-50.08	6.69008G	-45.42	2

802.11g_Nss1,(6Mbps)_2TX

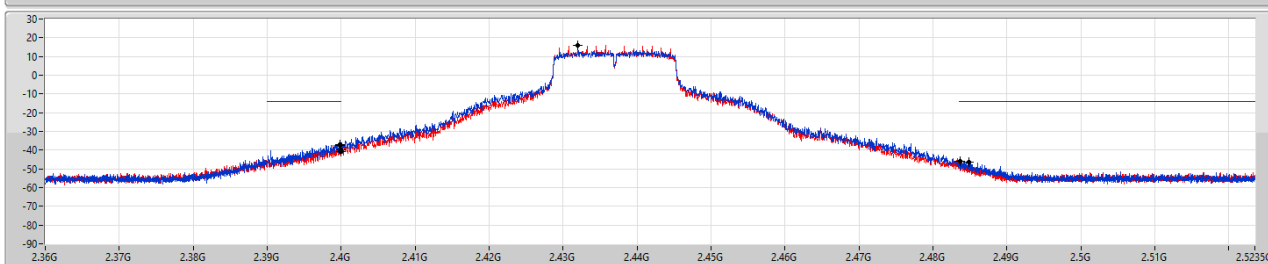
2437MHz

CSEndB

14/08/2021



Port 1
Port 2



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

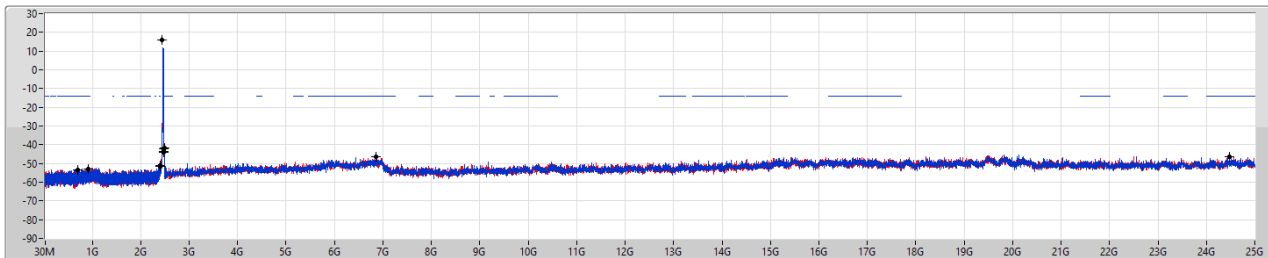
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43198G	16.10	-13.90	159.9M	-51.75	2.39984G	-37.16	2.4G	-39.78	2.48364G	-45.92	17.4198G	-46.82	1
2.43198G	16.10	-13.90	1.97235G	-52.22	2.39984G	-37.59	2.4G	-40.85	2.48486G	-46.38	16.40836G	-46.28	2

802.11g_Nss1,(6Mbps)_2TX

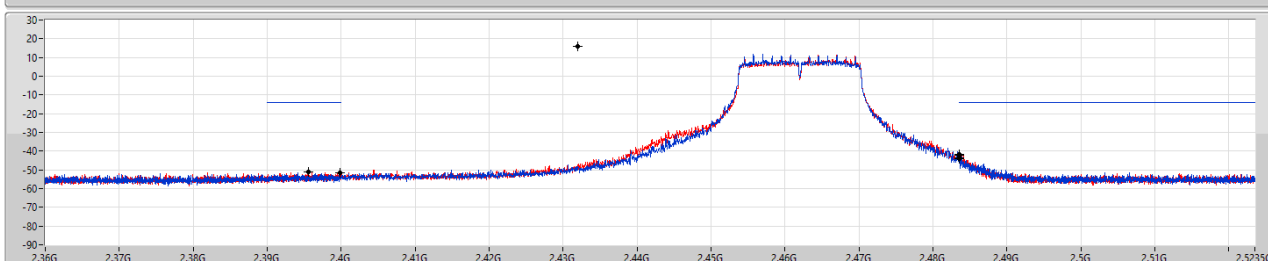
2462MHz

CSEndB

14/08/2021



Port 1
Port 2



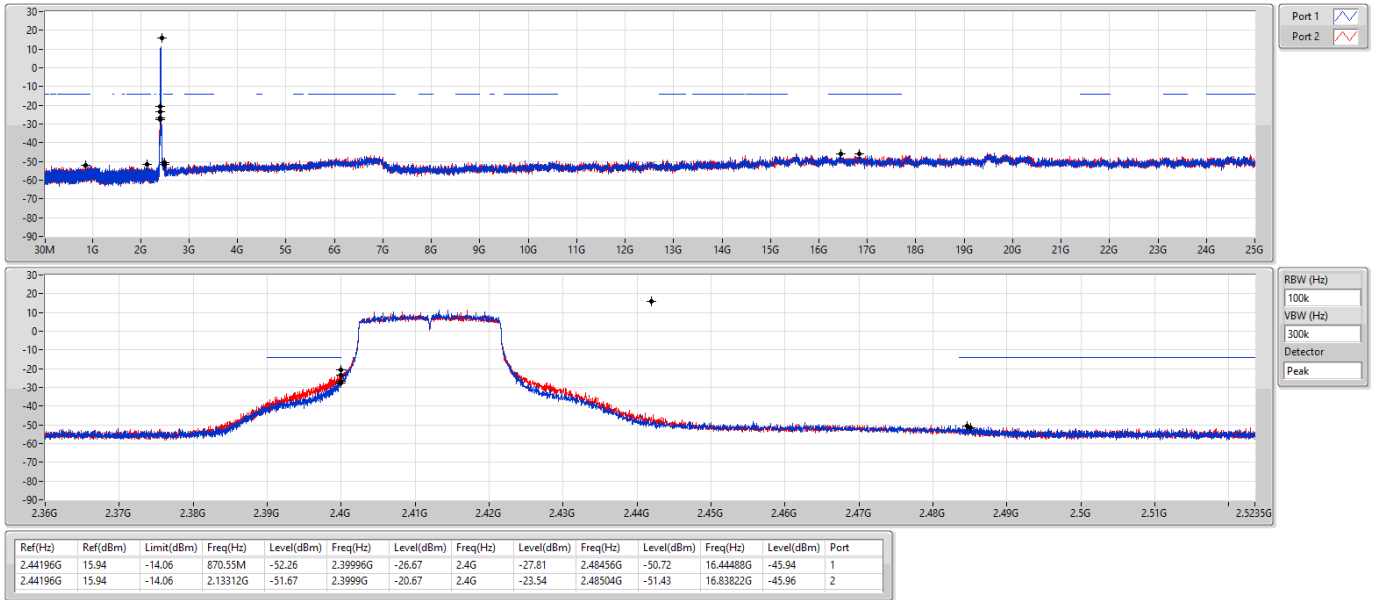
RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43198G	16.10	-13.90	908.99M	-52.77	2.39556G	-50.89	2.4835G	-43.47	2.48356G	-41.57	6.85023G	-46.38	1
2.43198G	16.10	-13.90	692.89M	-53.24	2.39982G	-51.40	2.4835G	-43.99	2.48352G	-42.12	24.47742G	-46.49	2

802.11ax HEW20_Nss1,(MCS0)_2TX

CSENdB

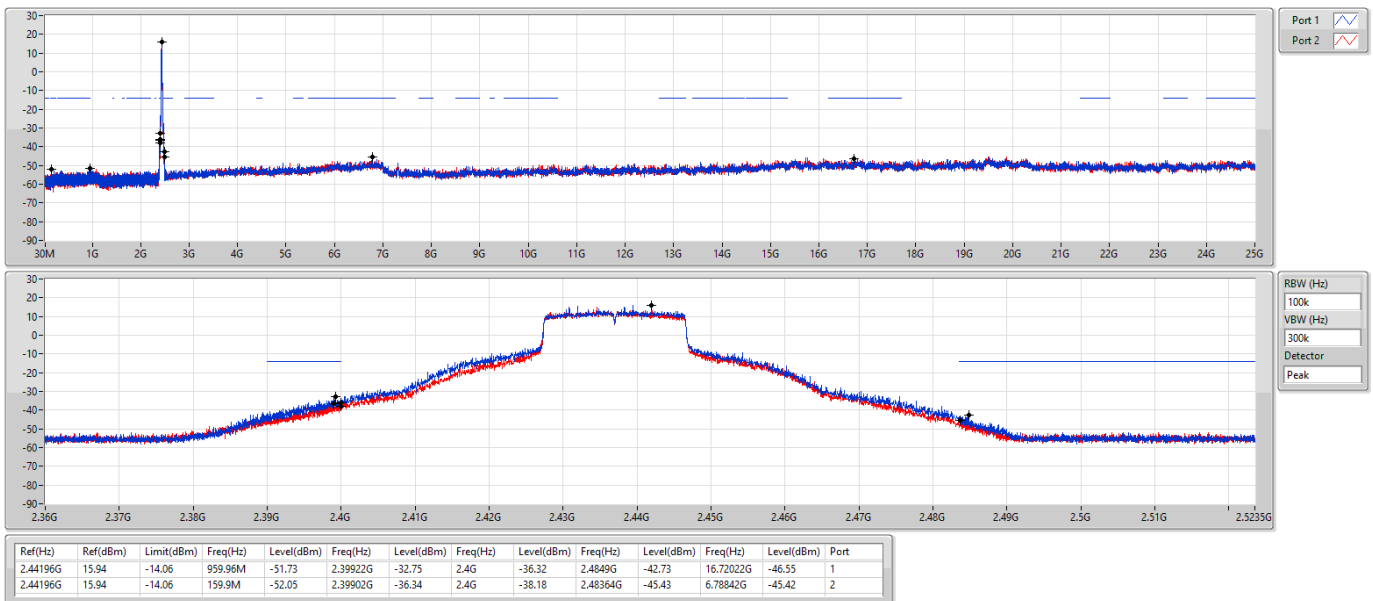
2412MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

CSENdB

2437MHz

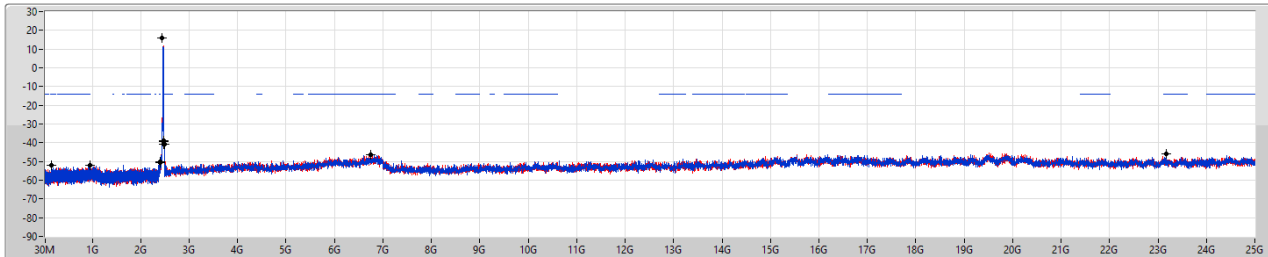


802.11ax HEW20_Nss1,(MCS0)_2TX

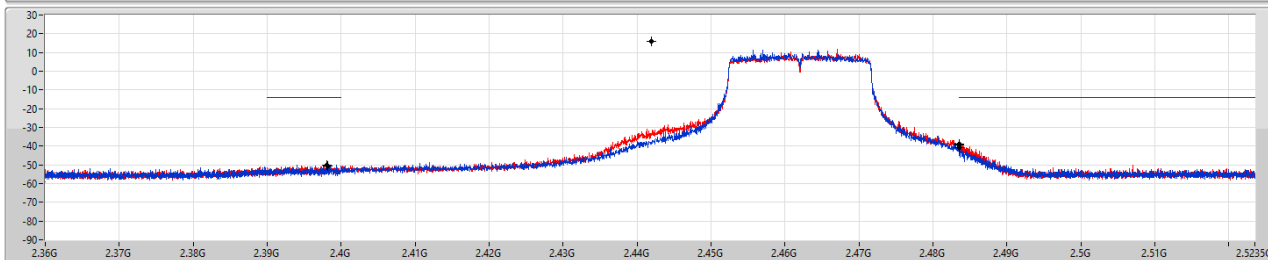
2462MHz

CSENdB

14/08/2021



Port 1
Port 2



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

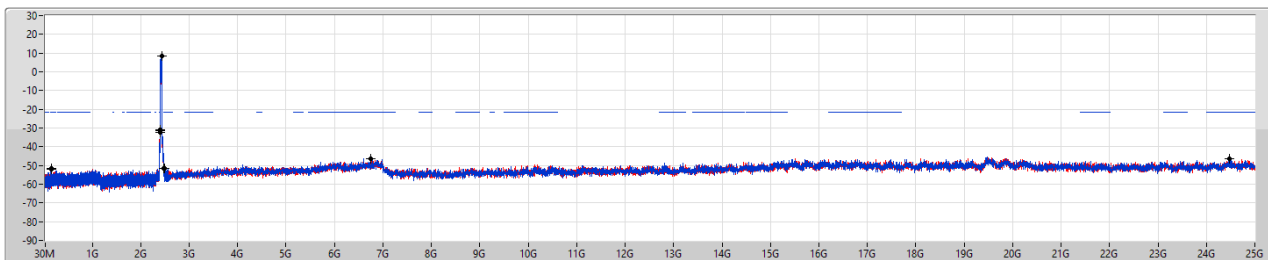
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44196G	15.94	-14.06	159.9M	-51.86	2.39806G	-50.29	2.4835G	-38.86	2.48356G	-40.79	23.16255G	-46.13	1
2.44196G	15.94	-14.06	949.48M	-51.81	2.39818G	-50.67	2.4835G	-40.65	2.48354G	-39.21	6.74627G	-46.49	2

802.11ax HEW40_Nss1,(MCS0)_2TX

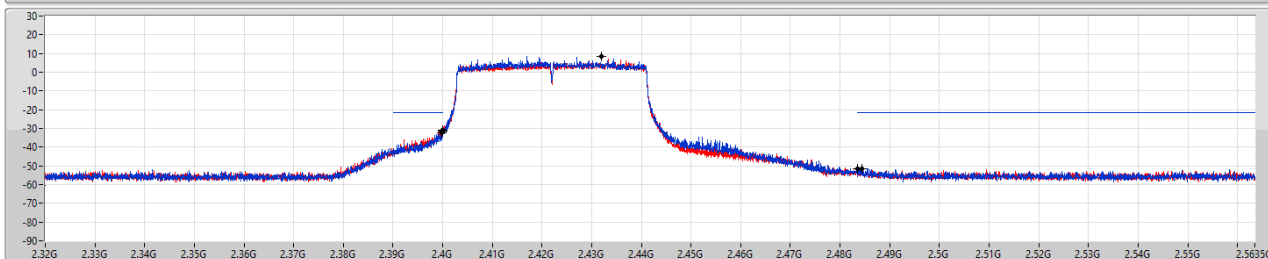
2422MHz

CSENdB

14/08/2021



Port 1
Port 2



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

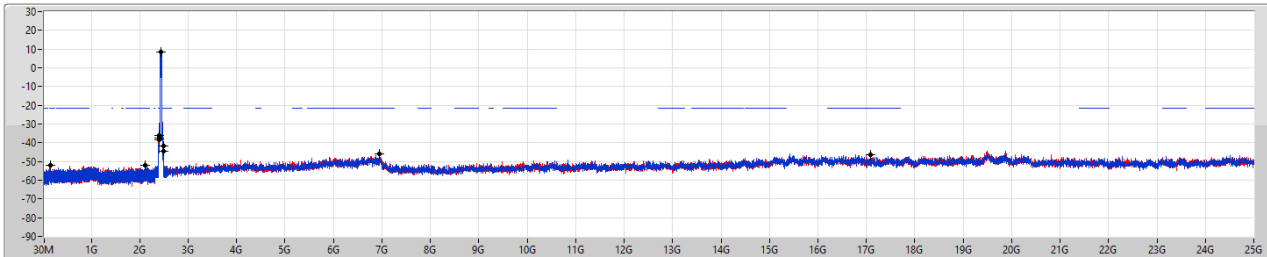
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43202G	8.66	-21.34	159.96M	-51.99	2.39976G	-32.39	2.4G	-30.96	2.48434G	-51.41	24.48116G	-46.40	1
2.43202G	8.66	-21.34	159.96M	-51.57	2.4G	-31.36	2.4G	-31.16	2.4835G	-51.52	6.75632G	-46.42	2

802.11ax HEW40_Nss1,(MCS0)_2TX

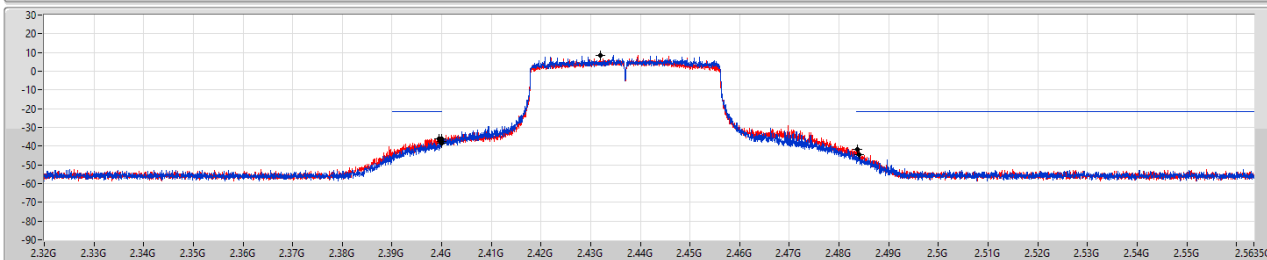
CSENdB

2437MHz

14/08/2021



Port 1
Port 2



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

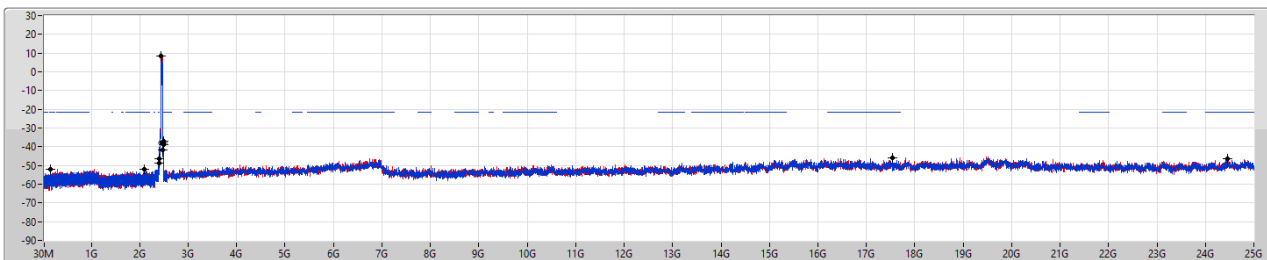
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43202G	8.66	-21.34	159.96M	-51.92	2.39948G	-35.99	2.4G	-38.65	2.4841G	-44.44	6.95544G	-46.09	1
2.43202G	8.66	-21.34	2.12134G	-52.23	2.4G	-35.98	2.4G	-37.62	2.48362G	-41.92	17.09113G	-46.41	2

802.11ax HEW40_Nss1,(MCS0)_2TX

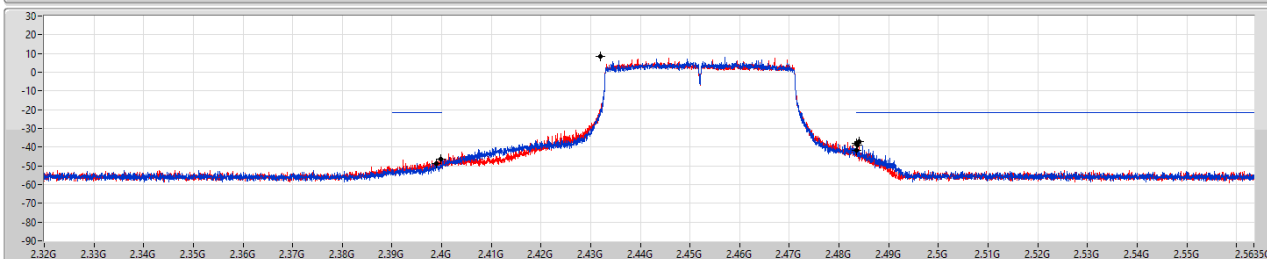
CSENdB

2452MHz

14/08/2021



Port 1
Port 2



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43202G	8.66	-21.34	159.96M	-51.81	2.39896G	-48.88	2.4835G	-41.88	2.48374G	-38.96	17.54828G	-45.88	1
2.43202G	8.66	-21.34	2.0979G	-52.06	2.39988G	-46.41	2.4835G	-38.10	2.48398G	-36.98	24.46433G	-46.18	2



Radiated Emissions below 1GHz

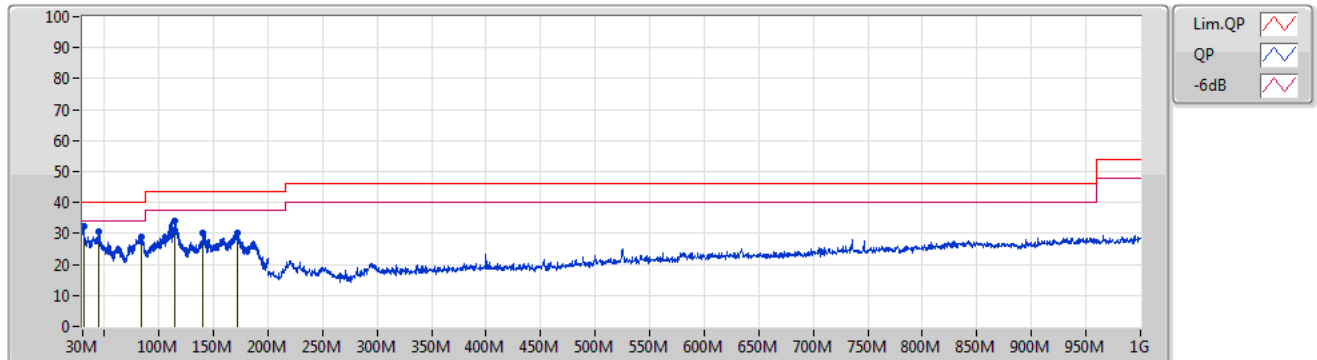
Appendix F.1

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	PK	30.68M	32.24	40.00	-7.76	Vertical

30/08/2021

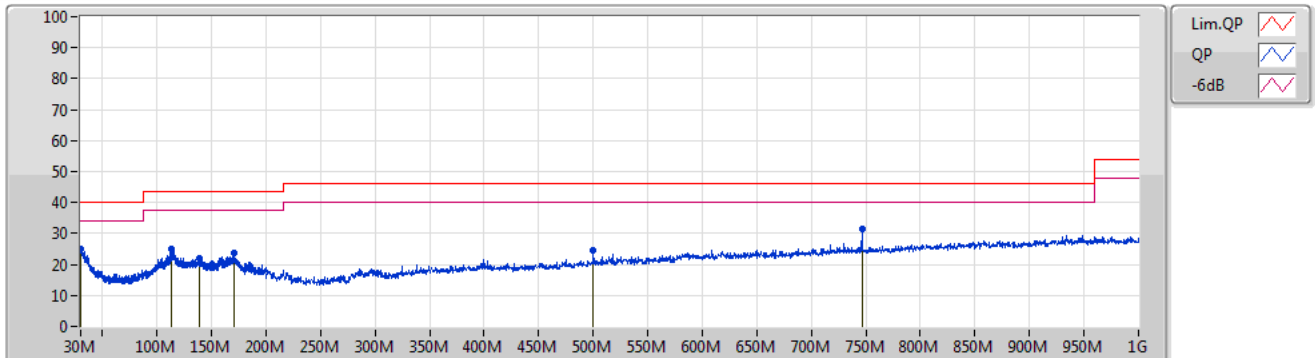
Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	30.68M	32.24	40.00	-7.76	-3.26	3	Vertical	300	1.00	"Worst"	35.50	23.60	1.03	27.89
PK	45.05M	30.70	40.00	-9.30	-10.66	3	Vertical	293	1.00	-	41.36	15.87	1.40	27.93
PK	84.32M	28.84	40.00	-11.16	-12.11	3	Vertical	32	2.00	-	40.95	13.55	2.19	27.85
PK	113.9M	33.94	43.50	-9.56	-7.00	3	Vertical	246	1.00	-	40.94	18.08	2.61	27.69
PK	140.33M	30.36	43.50	-13.14	-7.42	3	Vertical	36	1.00	-	37.78	17.12	3.00	27.54
PK	172.46M	30.33	43.50	-13.17	-8.48	3	Vertical	48	4.00	-	38.81	15.56	3.39	27.43

30/08/2021

Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	30.17M	24.88	40.00	-15.12	-3.13	3	Horizontal	255	1.00	-	28.01	23.74	1.01	27.88
PK	112.71M	24.91	43.50	-18.59	-7.08	3	Horizontal	331	2.00	-	31.99	18.03	2.59	27.70
PK	138.89M	22.07	43.50	-21.43	-7.35	3	Horizontal	1	1.00	-	29.42	17.22	2.98	27.55
PK	171.1M	23.62	43.50	-19.88	-8.46	3	Horizontal	8	1.00	-	32.08	15.61	3.37	27.44
PK	500M	24.53	46.00	-21.47	-5.58	3	Horizontal	342	2.00	-	30.11	17.52	4.80	27.90
PK	746.4M	31.28	46.00	-14.72	-1.20	3	Horizontal	55	1.00	"Worst"	32.48	20.41	5.99	27.60

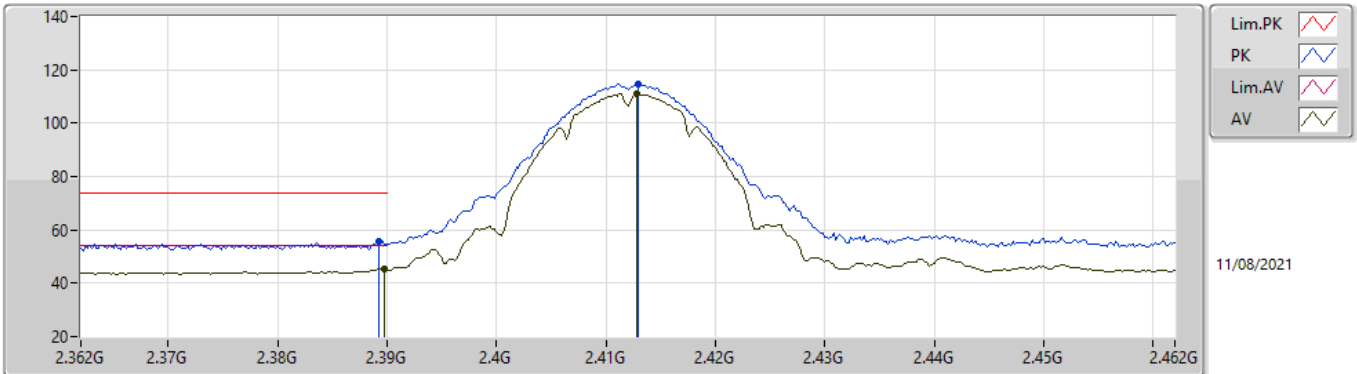


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	PK	2.4844G	73.91	74.00	-0.09	3	Horizontal	49	1.13	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

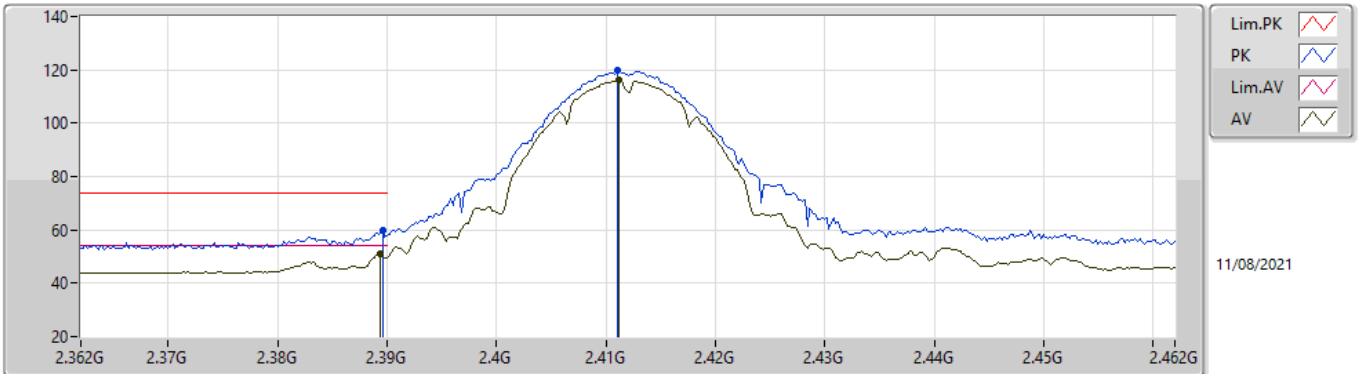


EUT_Z_2TX
Setting 59
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3892G	55.67	74.00	-18.33	24.99	3	Vertical	127	1.96	-	27.48	3.20	-
AV	2.3898G	45.25	54.00	-8.75	14.57	3	Vertical	127	1.96	-	27.48	3.20	-
PK	2.413G	114.78	Inf	-Inf	84.04	3	Vertical	127	1.96	-	27.53	3.21	-
AV	2.4128G	110.92	Inf	-Inf	80.18	3	Vertical	127	1.96	-	27.53	3.21	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

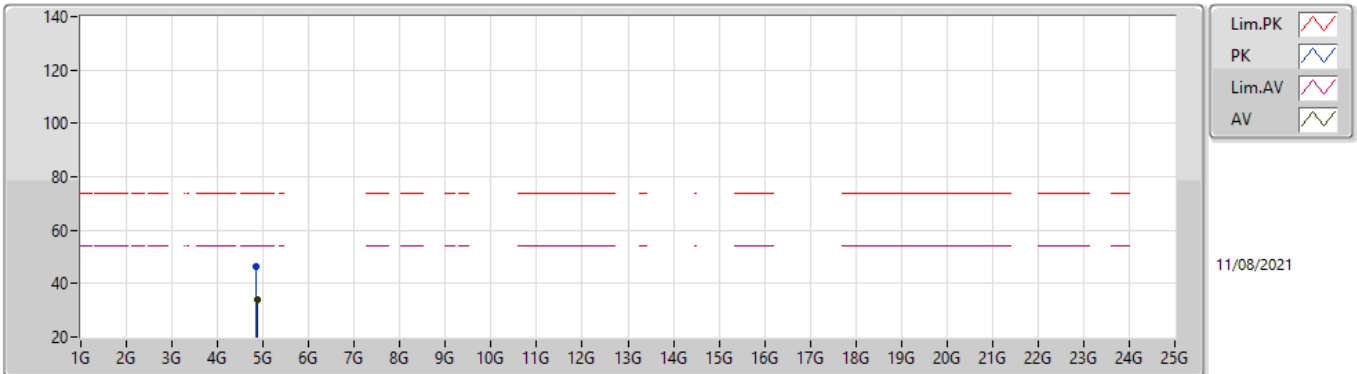


EUT_Z_2TX
Setting 59
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.3896G	59.58	74.00	-14.42	28.90	3	Horizontal	16	1.00	-	27.48	3.20	-	
AV	2.3894G	51.00	54.00	-3.00	20.32	3	Horizontal	16	1.00	-	27.48	3.20	-	
PK	2.411G	119.58	Inf	-Inf	88.85	3	Horizontal	16	1.00	-	27.52	3.21	-	
AV	2.4112G	116.08	Inf	-Inf	85.35	3	Horizontal	16	1.00	-	27.52	3.21	-	

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

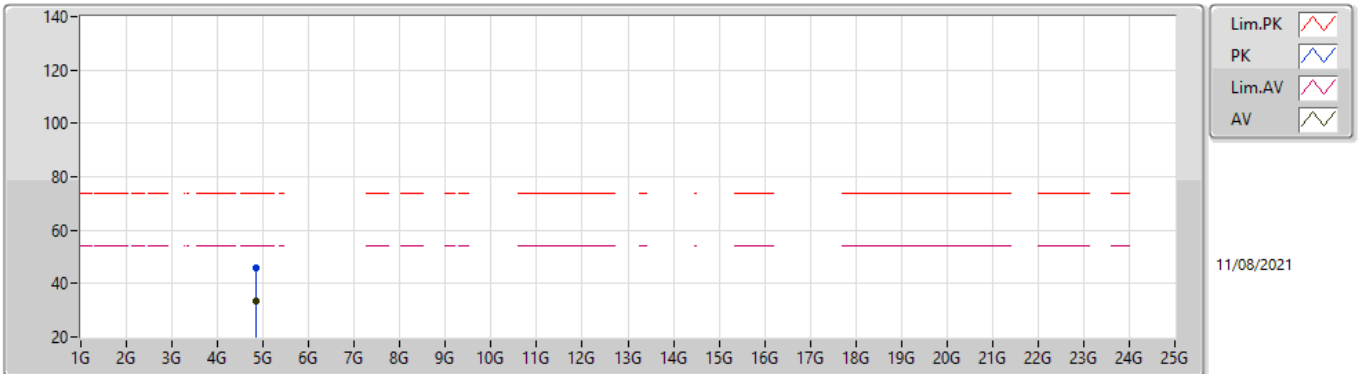


EUT_Z_2TX
Setting 59
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.852G	46.17	74.00	-27.83	41.28	3	Vertical	262	2.90	-	32.70	5.43	33.24
AV	4.8686G	33.77	54.00	-20.23	28.83	3	Vertical	262	2.90	-	32.74	5.43	33.23

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

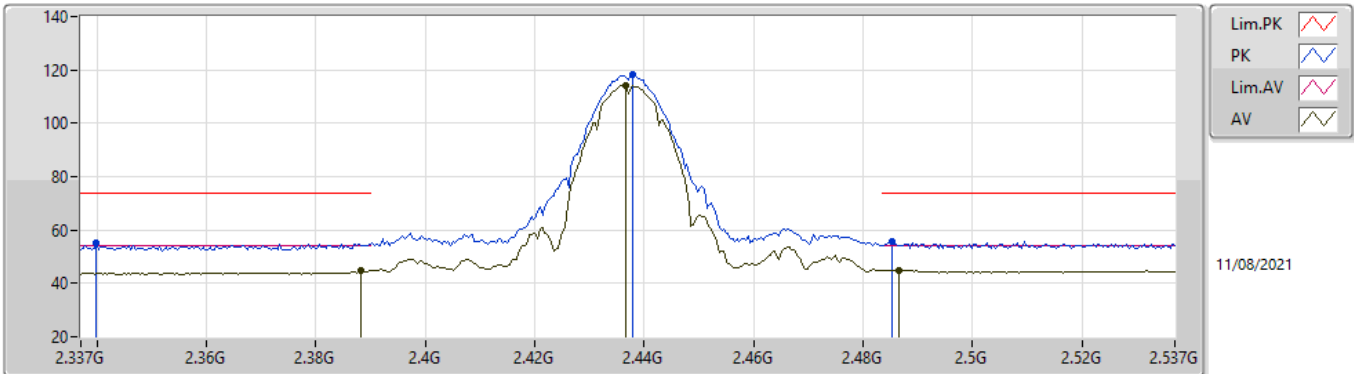


EUT_Z_2TX
Setting 59
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8413G	46.08	74.00	-27.92	41.25	3	Horizontal	153	2.40	-	32.65	5.42	33.24
AV	4.8459G	33.53	54.00	-20.47	28.67	3	Horizontal	153	2.40	-	32.68	5.42	33.24

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

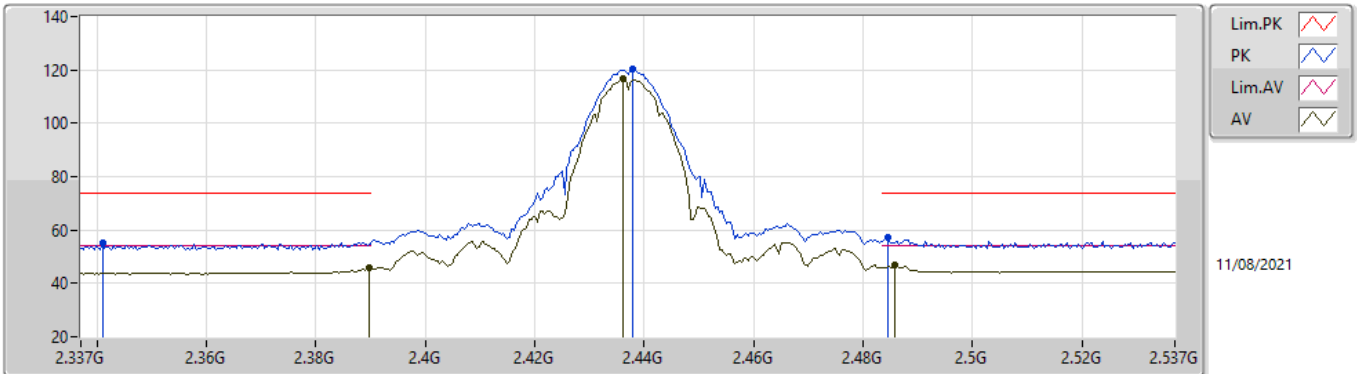


EUT_Z_2TX
Setting 60
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3398G	55.08	74.00	-18.92	24.48	3	Vertical	140	3.00	-	27.40	3.20	-
AV	2.3882G	44.95	54.00	-9.05	14.27	3	Vertical	140	3.00	-	27.48	3.20	-
PK	2.4378G	118.03	Inf	-Inf	87.21	3	Vertical	140	3.00	-	27.58	3.24	-
AV	2.4366G	114.27	Inf	-Inf	83.46	3	Vertical	140	3.00	-	27.57	3.24	-
PK	2.4854G	55.93	74.00	-18.07	24.90	3	Vertical	140	3.00	-	27.74	3.29	-
AV	2.4866G	45.05	54.00	-8.95	14.01	3	Vertical	140	3.00	-	27.75	3.29	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

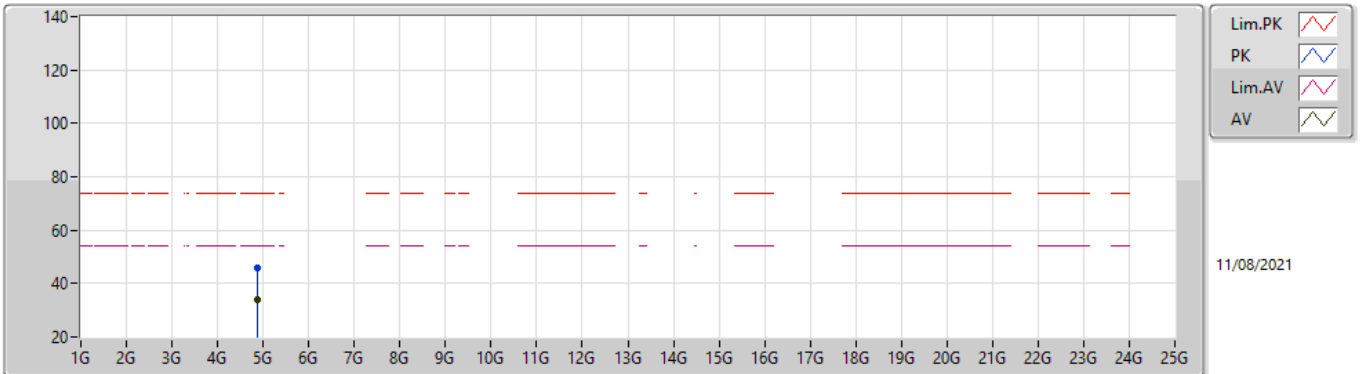


EUT_Z_2TX
Setting 60
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.341G	55.34	74.00	-18.66	24.74	3	Horizontal	69	1.00	-	27.40	3.20	-	
AV	2.3898G	45.63	54.00	-8.37	14.95	3	Horizontal	69	1.00	-	27.48	3.20	-	
PK	2.4378G	120.10	Inf	-Inf	89.28	3	Horizontal	69	1.00	-	27.58	3.24	-	
AV	2.4362G	116.48	Inf	-Inf	85.67	3	Horizontal	69	1.00	-	27.57	3.24	-	
PK	2.4846G	57.28	74.00	-16.72	26.26	3	Horizontal	69	1.00	-	27.74	3.28	-	
AV	2.4858G	46.76	54.00	-7.24	15.73	3	Horizontal	69	1.00	-	27.74	3.29	-	

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

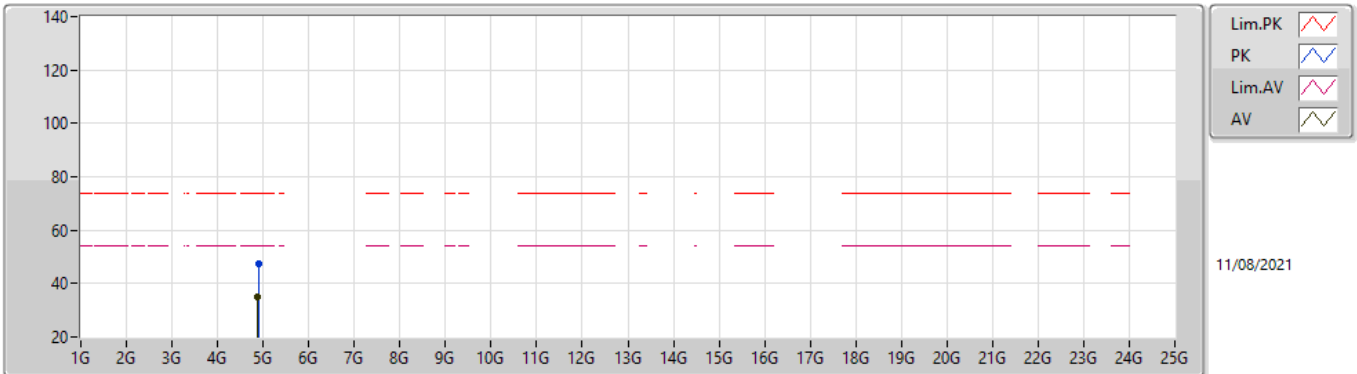


EUT_Z_2TX
Setting 60
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.885G	45.78	74.00	-28.22	40.79	3	Vertical	352	2.58	-	32.77	5.44	33.22
AV	4.868G	34.09	54.00	-19.91	29.15	3	Vertical	352	2.58	-	32.74	5.43	33.23

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

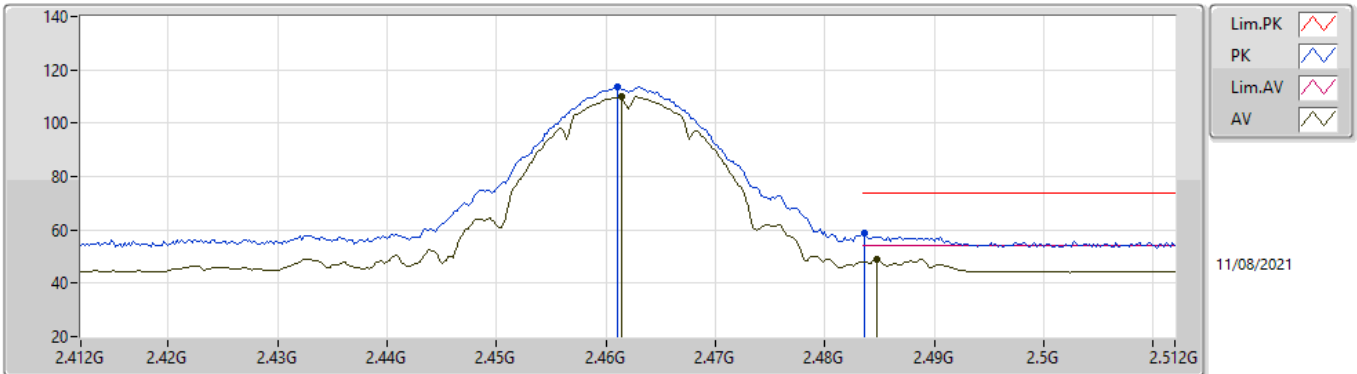


EUT_Z_2TX
Setting 60
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8906G	47.25	74.00	-26.75	42.24	3	Horizontal	100	1.04	-	32.78	5.45	33.22
AV	4.874G	34.94	54.00	-19.06	29.98	3	Horizontal	100	1.04	-	32.75	5.44	33.23

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

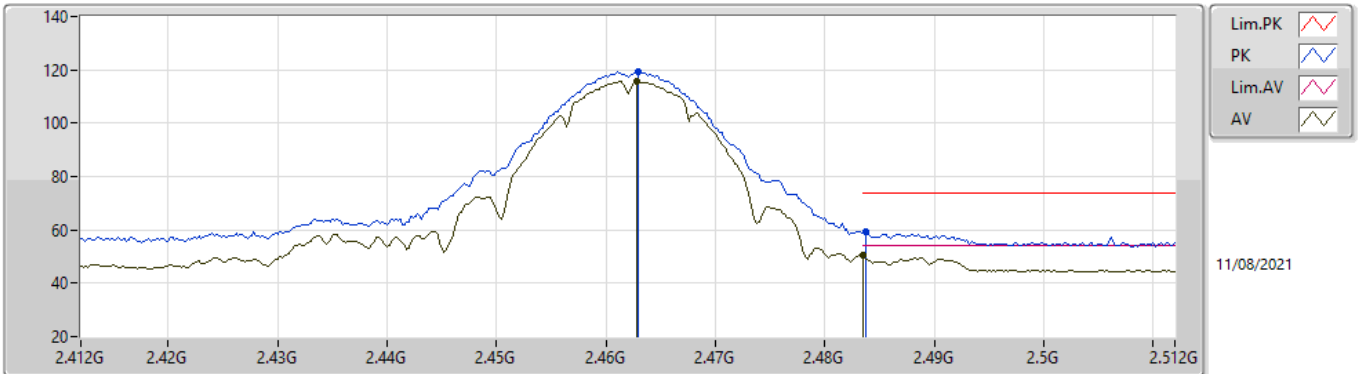


EUT_Z_2TX
Setting 59
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.461G	113.50	Inf	-Inf	82.60	3	Vertical	-0	1.11	-	27.64	3.26	-
AV	2.4614G	110.05	Inf	-Inf	79.14	3	Vertical	-0	1.11	-	27.65	3.26	-
PK	2.4836G	58.56	74.00	-15.44	27.55	3	Vertical	-0	1.11	-	27.73	3.28	-
AV	2.4848G	49.15	54.00	-4.85	18.13	3	Vertical	-0	1.11	-	27.74	3.28	-

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

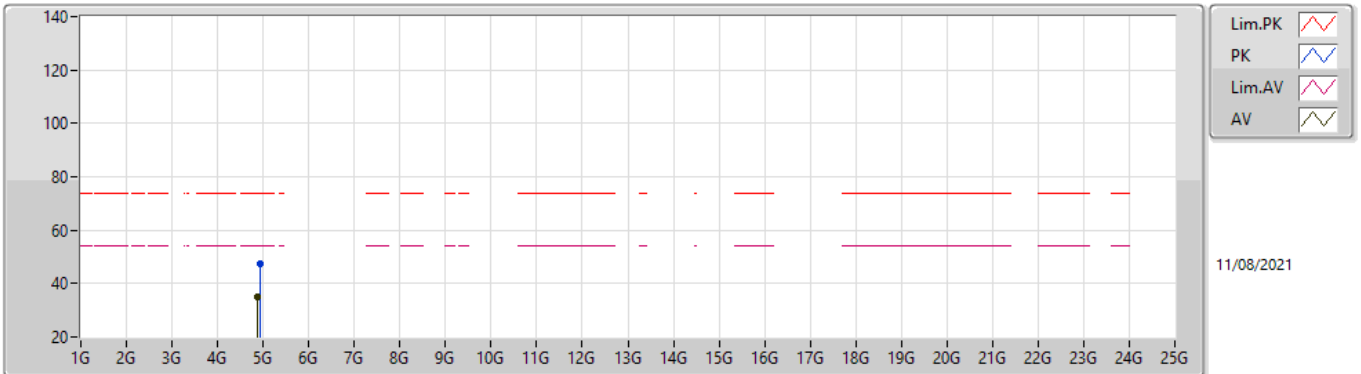


EUT_Z_2TX
Setting 59
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.463G	119.46	Inf	-Inf	88.55	3	Horizontal	66	1.00	-	27.65	3.26	-	
AV	2.4628G	115.73	Inf	-Inf	84.82	3	Horizontal	66	1.00	-	27.65	3.26	-	
PK	2.4838G	59.15	74.00	-14.85	28.13	3	Horizontal	66	1.00	-	27.74	3.28	-	
AV	2.4835G	50.40	54.00	-3.60	19.39	3	Horizontal	66	1.00	-	27.73	3.28	-	

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

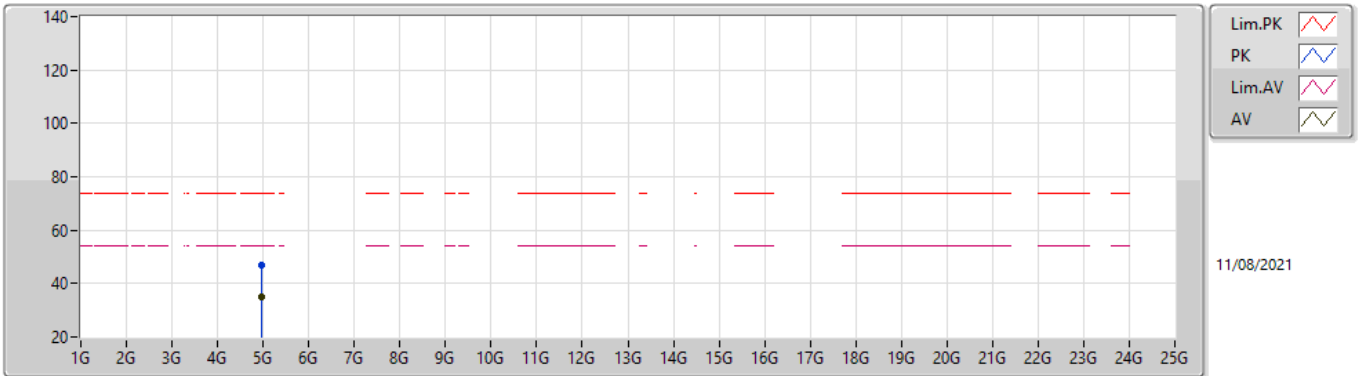


EUT_Z_2TX
Setting 59
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.9432G	47.36	74.00	-26.64	42.11	3	Vertical	360	1.45	-	32.97	5.47	33.19
AV	4.8836G	34.82	54.00	-19.18	29.83	3	Vertical	360	1.45	-	32.77	5.44	33.22

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

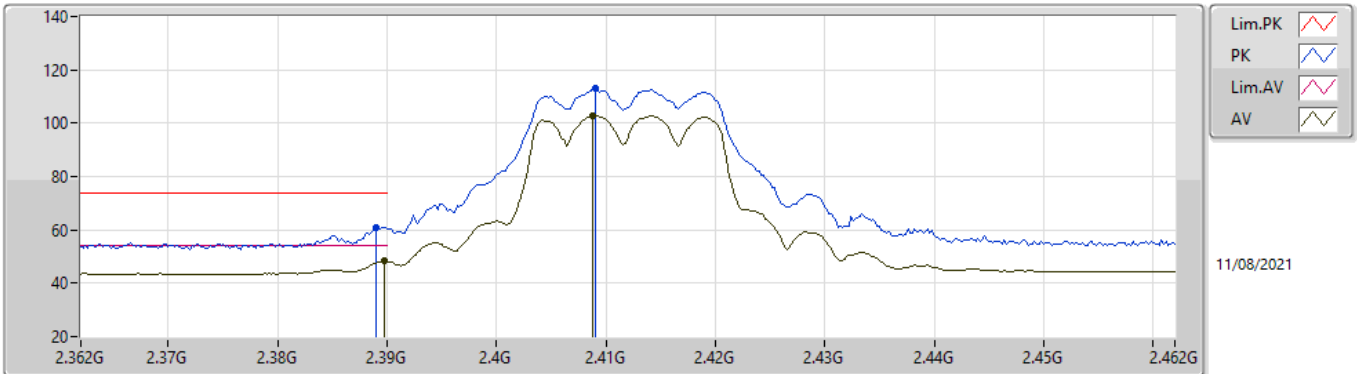


EUT_Z_2TX
Setting 59
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.9534G	46.96	74.00	-27.04	41.67	3	Horizontal	182	3.00	-	32.99	5.48	33.18
AV	4.9596G	34.80	54.00	-19.20	29.52	3	Horizontal	182	3.00	-	32.98	5.48	33.18

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

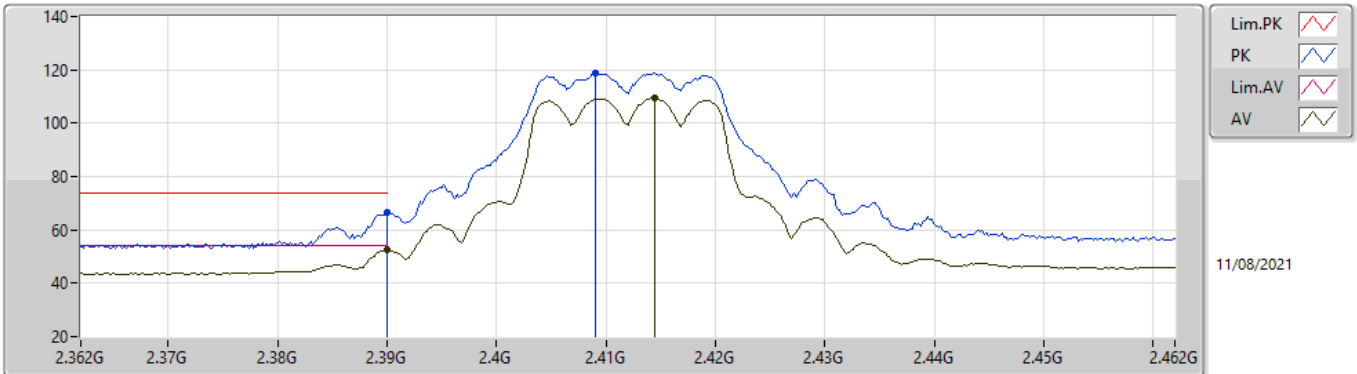


EUT_Z_2TX
Setting 46
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.389G	60.78	74.00	-13.22	30.10	3	Vertical	127	1.16	-	27.48	3.20	-
AV	2.3898G	48.24	54.00	-5.76	17.56	3	Vertical	127	1.16	-	27.48	3.20	-
PK	2.409G	112.86	Inf	-Inf	82.13	3	Vertical	127	1.16	-	27.52	3.21	-
AV	2.4088G	102.87	Inf	-Inf	72.14	3	Vertical	127	1.16	-	27.52	3.21	-

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

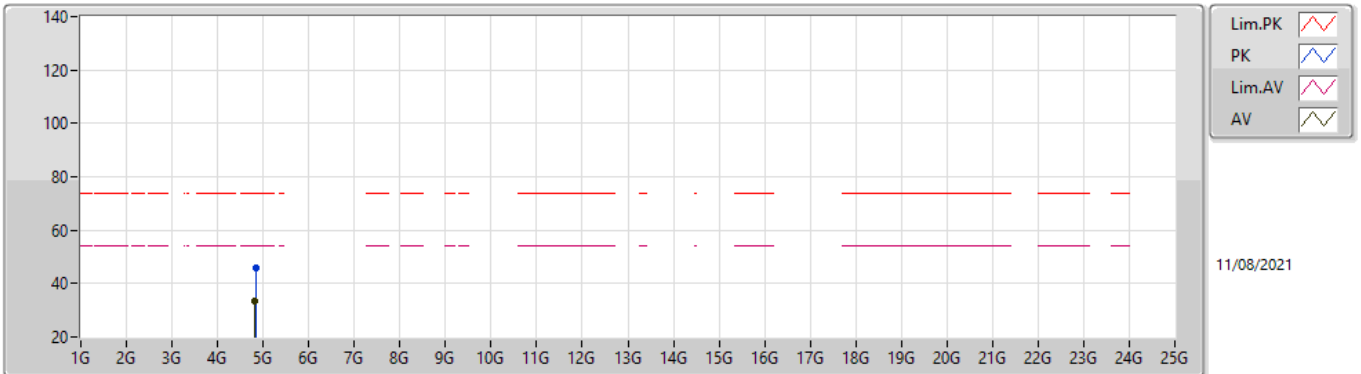


EUT_Z_2TX
Setting 46
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	66.67	74.00	-7.33	35.99	3	Horizontal	230	1.00	-	27.48	3.20	-
AV	2.39G	52.43	54.00	-1.57	21.75	3	Horizontal	230	1.00	-	27.48	3.20	-
PK	2.409G	118.75	Inf	-Inf	88.02	3	Horizontal	230	1.00	-	27.52	3.21	-
AV	2.4144G	109.37	Inf	-Inf	78.63	3	Horizontal	230	1.00	-	27.53	3.21	-

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

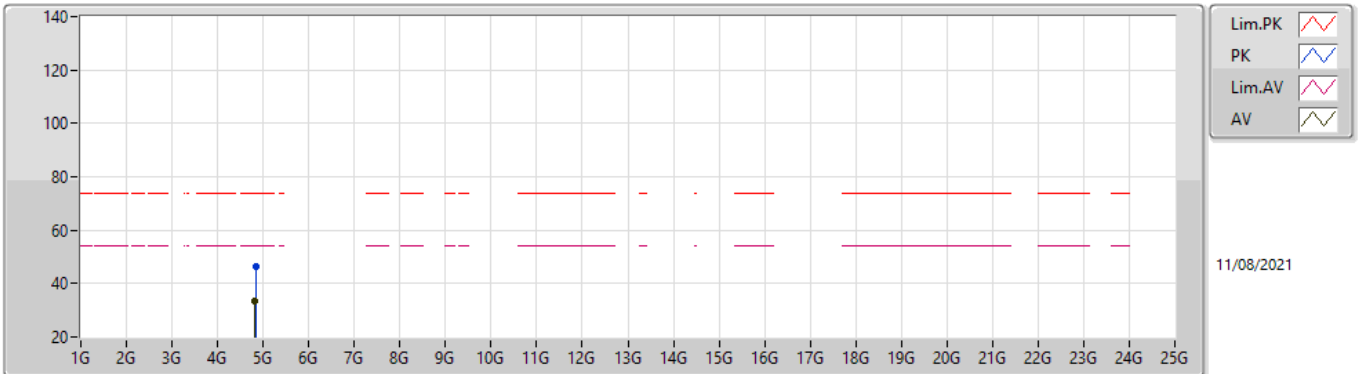


EUT_Z_2TX
Setting 46
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8407G	46.03	74.00	-27.97	41.21	3	Vertical	173	1.09	-	32.64	5.42	33.24
AV	4.8278G	33.55	54.00	-20.45	28.82	3	Vertical	173	1.09	-	32.57	5.41	33.25

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

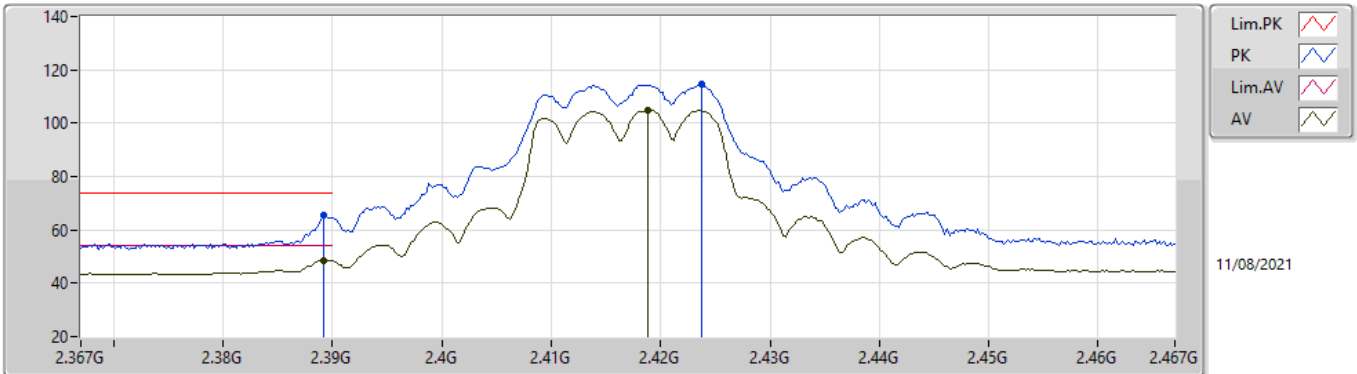


EUT_Z_2TX
Setting 46
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8481G	46.36	74.00	-27.64	41.49	3	Horizontal	221	2.59	-	32.69	5.42	33.24
AV	4.8057G	33.36	54.00	-20.64	28.79	3	Horizontal	221	2.59	-	32.43	5.40	33.26

802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX

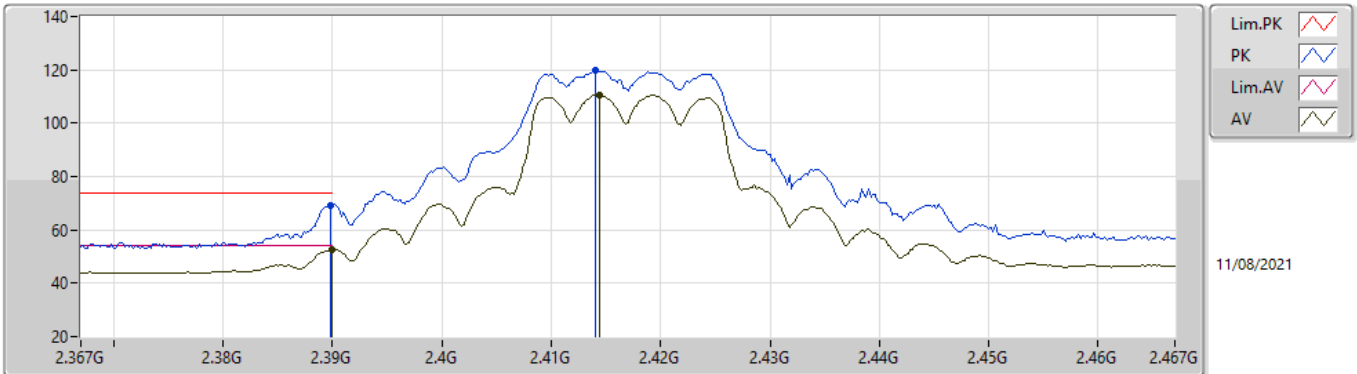


EUT_Z_2TX
Setting 48
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3892G	65.31	74.00	-8.69	34.63	3	Vertical	136	1.07	-	27.48	3.20	-
AV	2.3892G	48.69	54.00	-5.31	18.01	3	Vertical	136	1.07	-	27.48	3.20	-
PK	2.4238G	114.48	Inf	-Inf	83.71	3	Vertical	136	1.07	-	27.55	3.22	-
AV	2.4188G	104.84	Inf	-Inf	74.08	3	Vertical	136	1.07	-	27.54	3.22	-

802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX

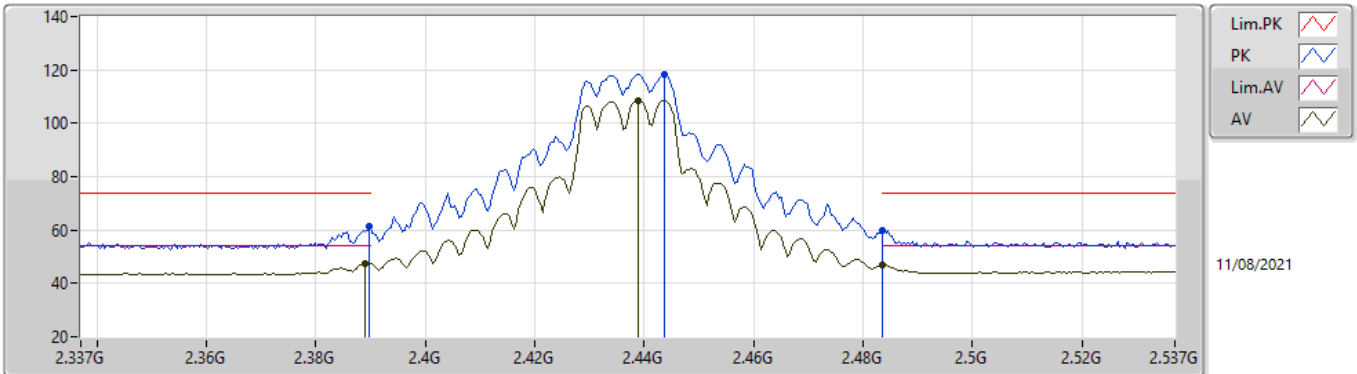


EUT_Z_2TX
Setting 48
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	69.31	74.00	-4.69	38.63	3	Horizontal	228	1.00	-	27.48	3.20	-
AV	2.39G	52.36	54.00	-1.64	21.68	3	Horizontal	228	1.00	-	27.48	3.20	-
PK	2.414G	119.66	Inf	-Inf	88.92	3	Horizontal	228	1.00	-	27.53	3.21	-
AV	2.4144G	110.49	Inf	-Inf	79.75	3	Horizontal	228	1.00	-	27.53	3.21	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

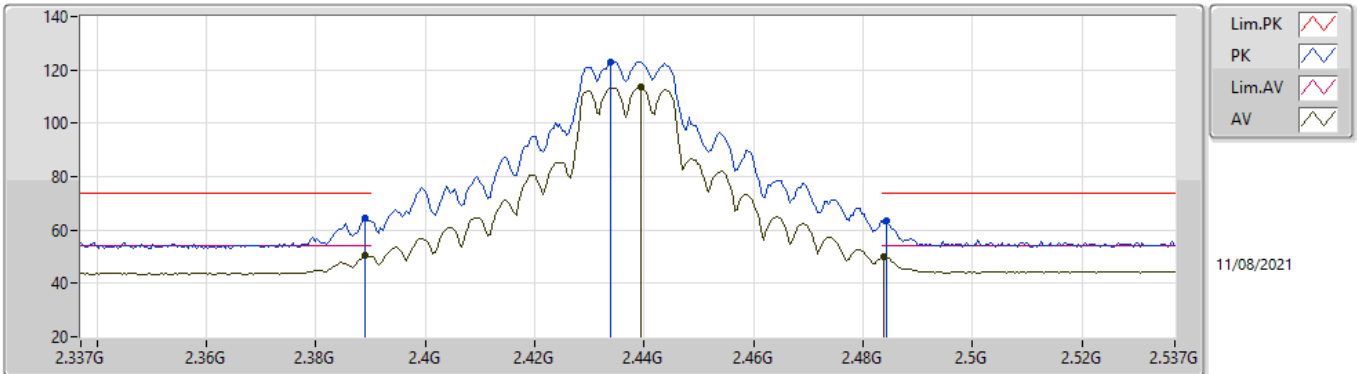


EUT_Z_2TX
Setting 60
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	61.15	74.00	-12.85	30.47	3	Vertical	131	1.00	-	27.48	3.20	-
AV	2.389G	47.61	54.00	-6.39	16.93	3	Vertical	131	1.00	-	27.48	3.20	-
PK	2.4438G	118.21	Inf	-Inf	87.38	3	Vertical	131	1.00	-	27.59	3.24	-
AV	2.439G	108.55	Inf	-Inf	77.73	3	Vertical	131	1.00	-	27.58	3.24	-
PK	2.4835G	59.84	74.00	-14.16	28.83	3	Vertical	131	1.00	-	27.73	3.28	-
AV	2.4835G	46.87	54.00	-7.13	15.86	3	Vertical	131	1.00	-	27.73	3.28	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

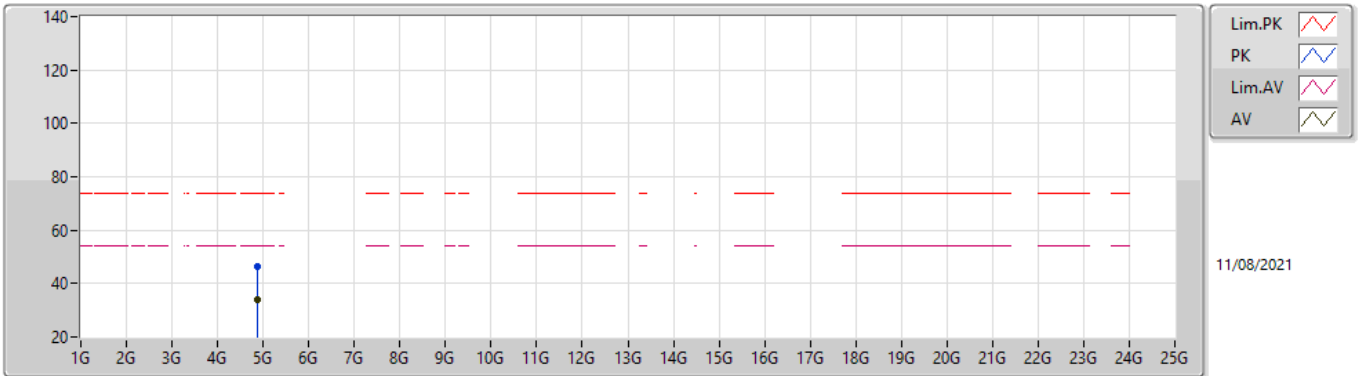


EUT_Z_2TX
Setting 60
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.389G	64.25	74.00	-9.75	33.57	3	Horizontal	46	1.18	-	27.48	3.20	-
AV	2.389G	50.27	54.00	-3.73	19.59	3	Horizontal	46	1.18	-	27.48	3.20	-
PK	2.4338G	123.18	Inf	-Inf	92.38	3	Horizontal	46	1.18	-	27.57	3.23	-
AV	2.4394G	113.54	Inf	-Inf	82.72	3	Horizontal	46	1.18	-	27.58	3.24	-
PK	2.4842G	63.46	74.00	-10.54	32.44	3	Horizontal	46	1.18	-	27.74	3.28	-
AV	2.4838G	49.79	54.00	-4.21	18.77	3	Horizontal	46	1.18	-	27.74	3.28	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

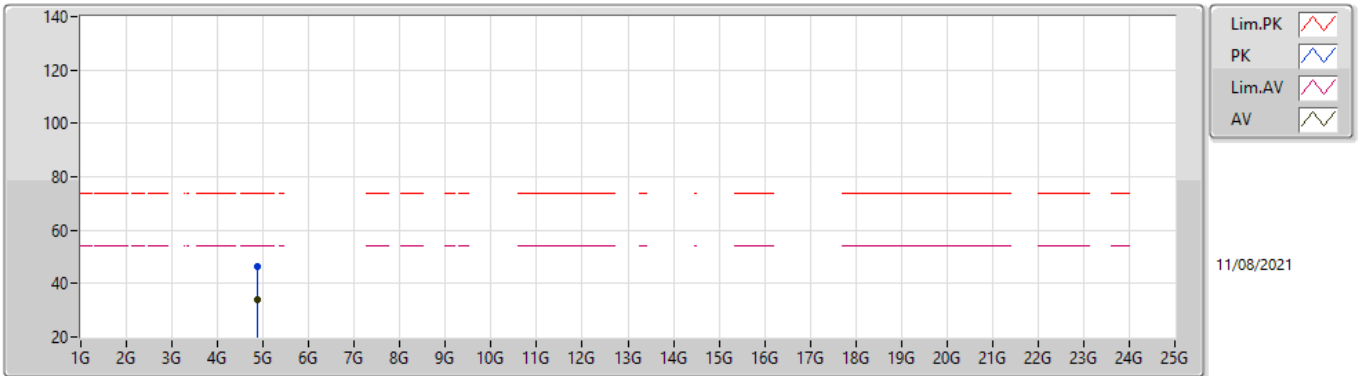


EUT_Z_2TX
Setting 60
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8618G	46.59	74.00	-27.41	41.67	3	Vertical	202	2.63	-	32.72	5.43	33.23
AV	4.8724G	33.95	54.00	-20.05	29.00	3	Vertical	202	2.63	-	32.74	5.44	33.23

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

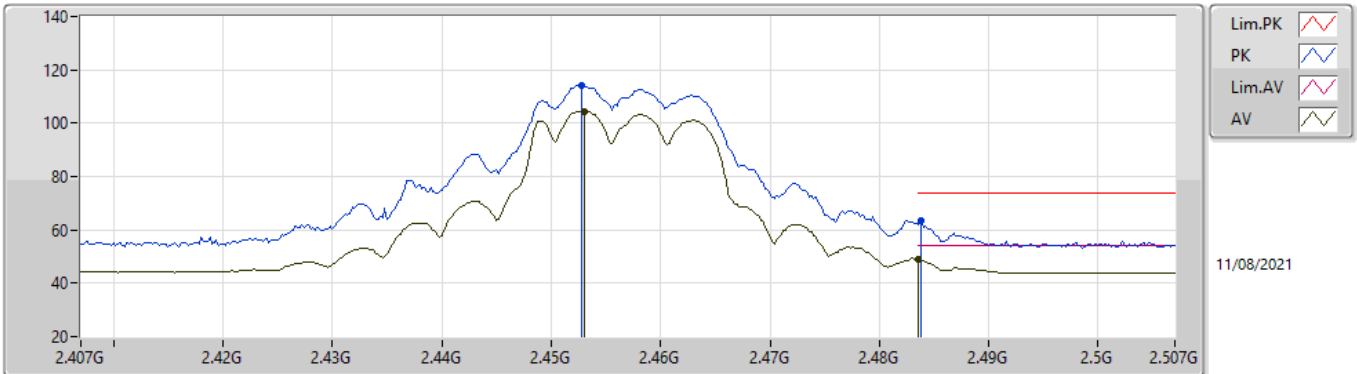


EUT_Z_2TX
Setting 60
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8809G	46.43	74.00	-27.57	41.45	3	Horizontal	140	2.47	-	32.76	5.44	33.22
AV	4.8792G	33.80	54.00	-20.20	28.82	3	Horizontal	140	2.47	-	32.76	5.44	33.22

802.11g_Nss1,(6Mbps)_2TX

2457MHz_TX

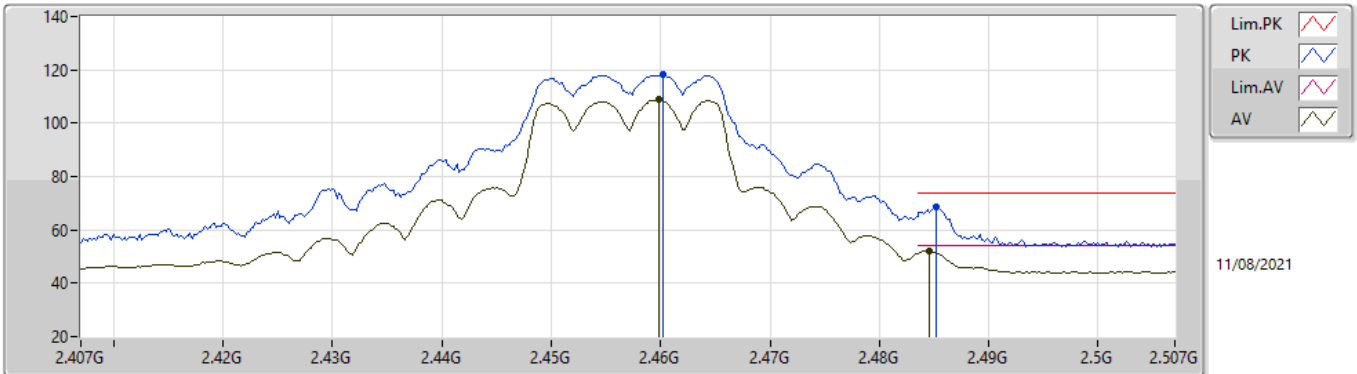


EUT_Z_2TX
Setting 48
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4528G	114.16	Inf	-Inf	83.30	3	Vertical	131	2.18	-	27.61	3.25	-
AV	2.453G	104.51	Inf	-Inf	73.65	3	Vertical	131	2.18	-	27.61	3.25	-
PK	2.4838G	63.27	74.00	-10.73	32.25	3	Vertical	131	2.18	-	27.74	3.28	-
AV	2.4835G	49.06	54.00	-4.94	18.05	3	Vertical	131	2.18	-	27.73	3.28	-

802.11g_Nss1,(6Mbps)_2TX

2457MHz_TX

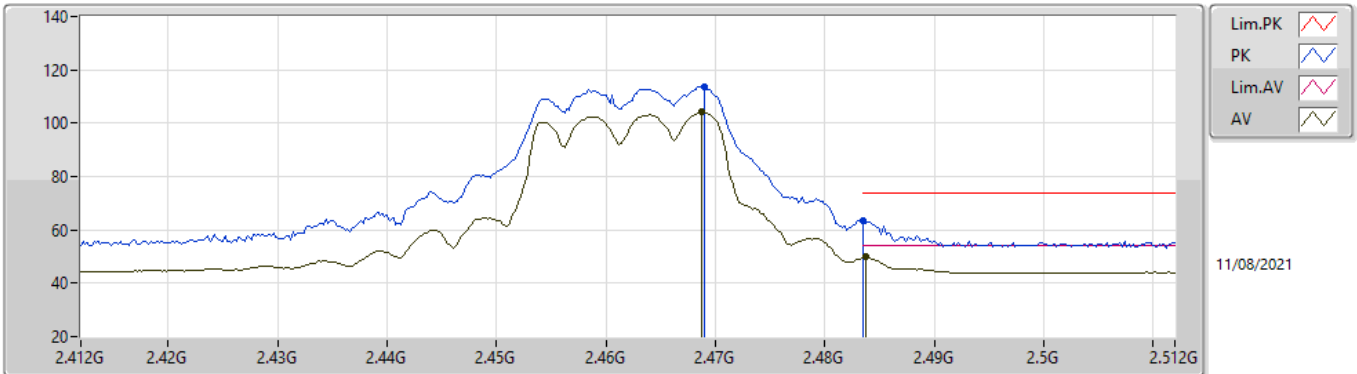


EUT_Z_2TX
Setting 48
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.4602G	118.17	Inf	-Inf	87.27	3	Horizontal	42	1.24	-	27.64	3.26	-	
AV	2.4598G	108.79	Inf	-Inf	77.89	3	Horizontal	42	1.24	-	27.64	3.26	-	
PK	2.4852G	68.55	74.00	-5.45	37.52	3	Horizontal	42	1.24	-	27.74	3.29	-	
AV	2.4846G	52.14	54.00	-1.86	21.12	3	Horizontal	42	1.24	-	27.74	3.28	-	

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

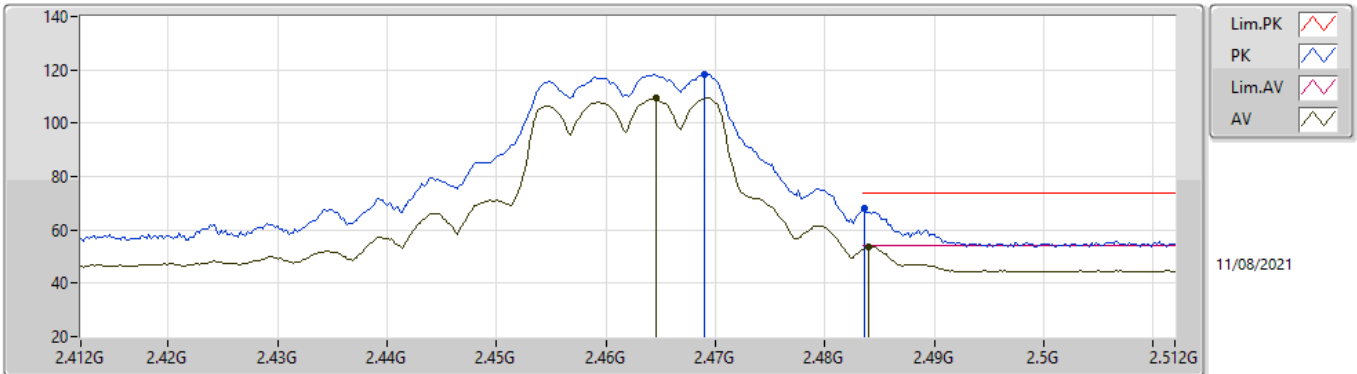


EUT_Z_2TX
Setting 46
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.469G	113.74	Inf	-Inf	82.79	3	Vertical	132	1.10	-	27.68	3.27	-
AV	2.4688G	104.06	Inf	-Inf	73.11	3	Vertical	132	1.10	-	27.68	3.27	-
PK	2.4835G	63.54	74.00	-10.46	32.53	3	Vertical	132	1.10	-	27.73	3.28	-
AV	2.4838G	49.87	54.00	-4.13	18.85	3	Vertical	132	1.10	-	27.74	3.28	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

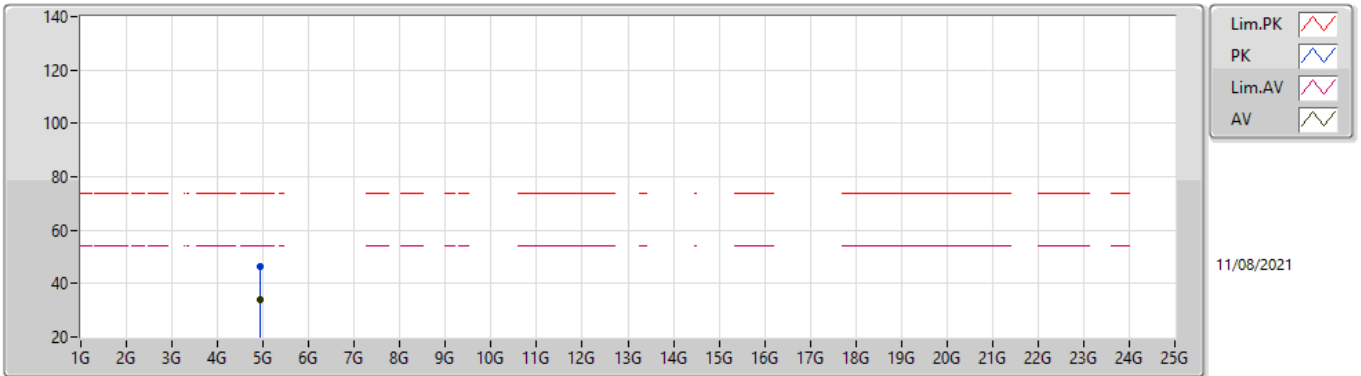


EUT_Z_2TX
Setting 46
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.469G	118.19	Inf	-Inf	87.24	3	Horizontal	46	1.00	-	27.68	3.27	-
AV	2.4646G	109.38	Inf	-Inf	78.46	3	Horizontal	46	1.00	-	27.66	3.26	-
PK	2.4836G	67.88	74.00	-6.12	36.87	3	Horizontal	46	1.00	-	27.73	3.28	-
AV	2.484G	53.82	54.00	-0.18	22.80	3	Horizontal	46	1.00	-	27.74	3.28	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

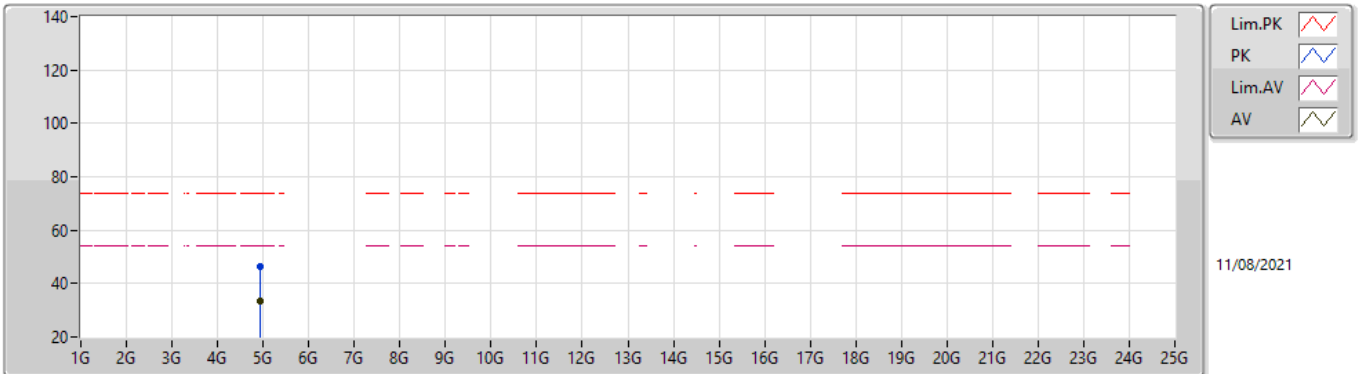


EUT_Z_2TX
Setting 46
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	4.9426G	46.53	74.00	-27.47	41.28	3	Vertical	64	1.17	-	32.97	5.47	33.19	
AV	4.9393G	33.84	54.00	-20.16	28.60	3	Vertical	64	1.17	-	32.96	5.47	33.19	

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

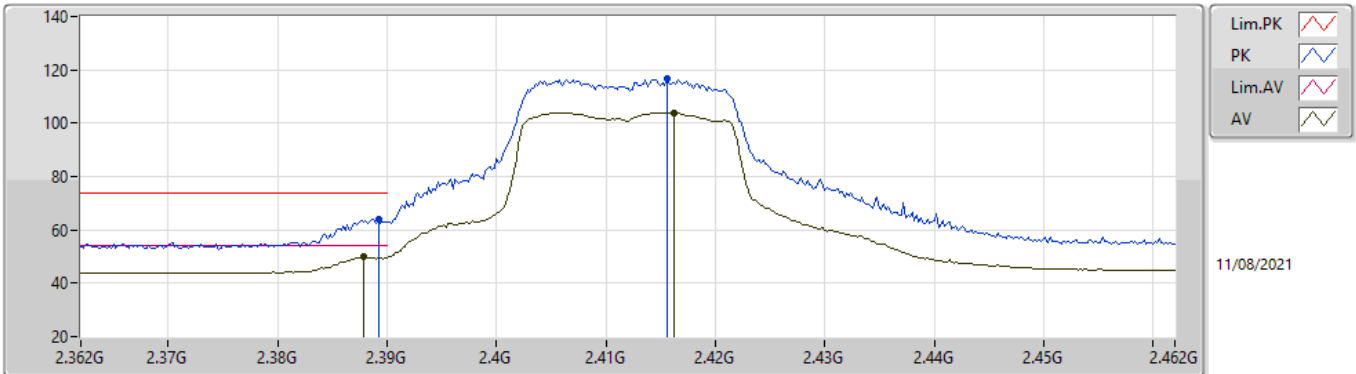


EUT_Z_2TX
Setting 46
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.9407G	46.62	74.00	-27.38	41.38	3	Horizontal	355	1.72	-	32.96	5.47	33.19
AV	4.9488G	33.63	54.00	-20.37	28.35	3	Horizontal	355	1.72	-	33.00	5.47	33.19

802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz_TX

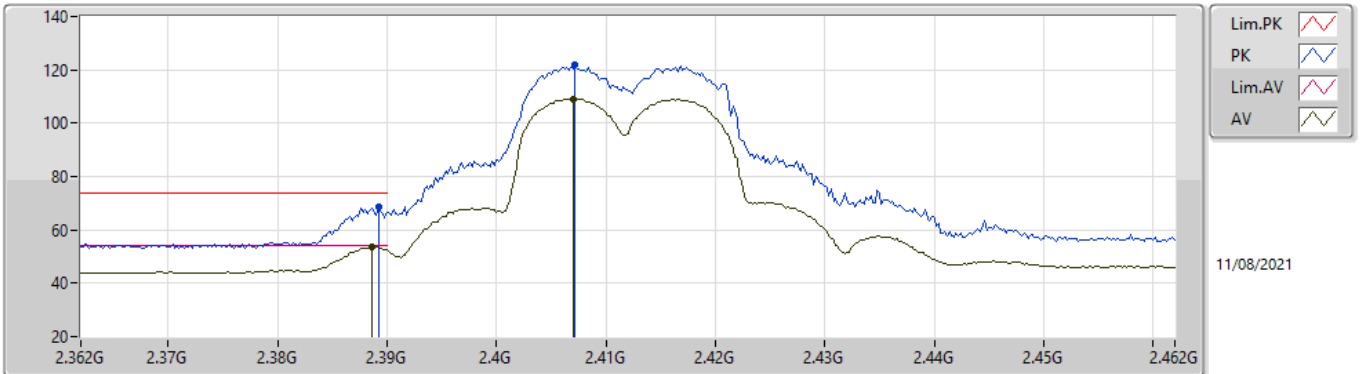


EUT_Z_2TX
Setting 46
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3892G	64.10	74.00	-9.90	33.42	3	Vertical	312	2.96	-	27.48	3.20	-
AV	2.3878G	49.77	54.00	-4.23	19.09	3	Vertical	312	2.96	-	27.48	3.20	-
PK	2.4156G	116.58	Inf	-Inf	85.83	3	Vertical	312	2.96	-	27.53	3.22	-
AV	2.4162G	103.98	Inf	-Inf	73.23	3	Vertical	312	2.96	-	27.53	3.22	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz_TX

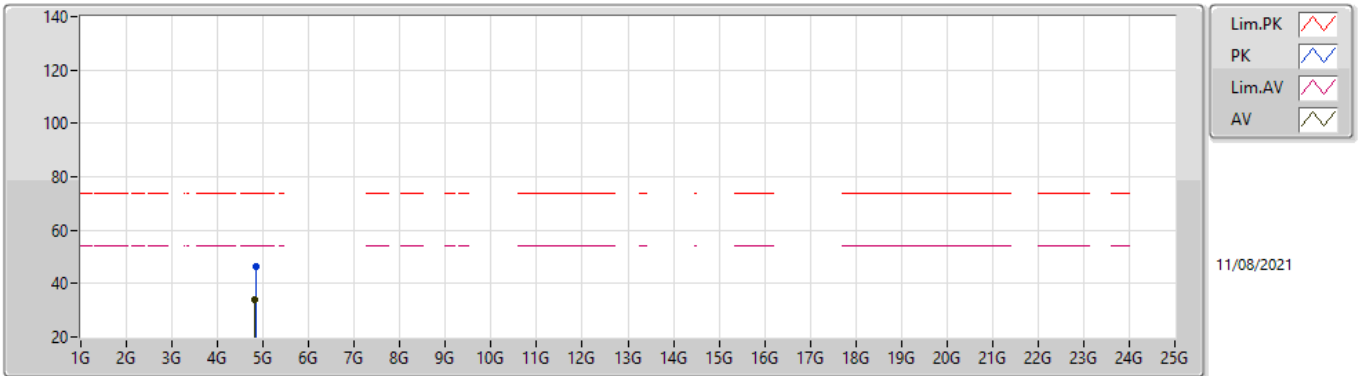


EUT_Z_2TX
Setting 46
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3892G	68.40	74.00	-5.60	37.72	3	Horizontal	229	1.03	-	27.48	3.20	-
AV	2.3886G	53.76	54.00	-0.24	23.08	3	Horizontal	229	1.03	-	27.48	3.20	-
PK	2.4072G	121.81	Inf	-Inf	91.09	3	Horizontal	229	1.03	-	27.51	3.21	-
AV	2.407G	108.96	Inf	-Inf	78.24	3	Horizontal	229	1.03	-	27.51	3.21	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz_TX

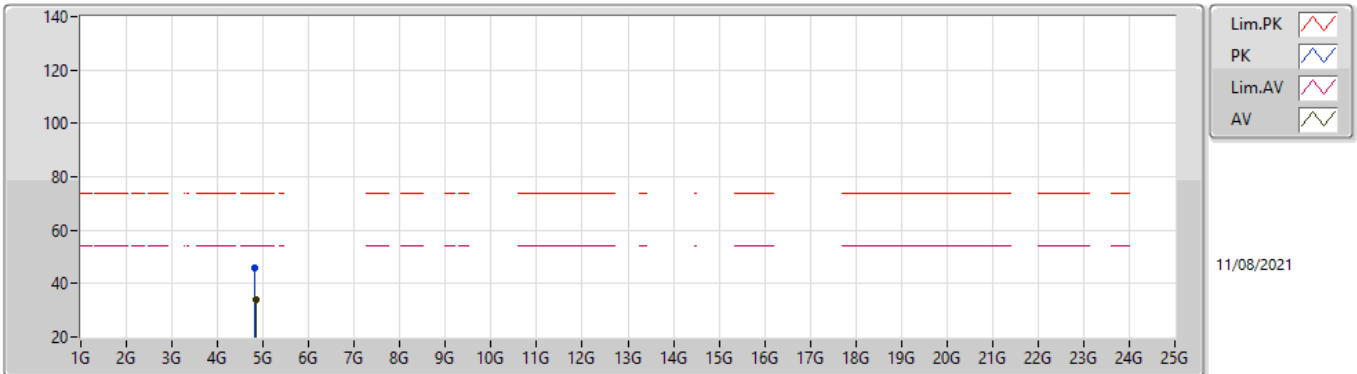


EUT_Z_2TX
Setting 46
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8326G	46.47	74.00	-27.53	41.70	3	Vertical	42	1.90	-	32.60	5.42	33.25
AV	4.8254G	34.03	54.00	-19.97	29.32	3	Vertical	42	1.90	-	32.55	5.41	33.25

802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz_TX

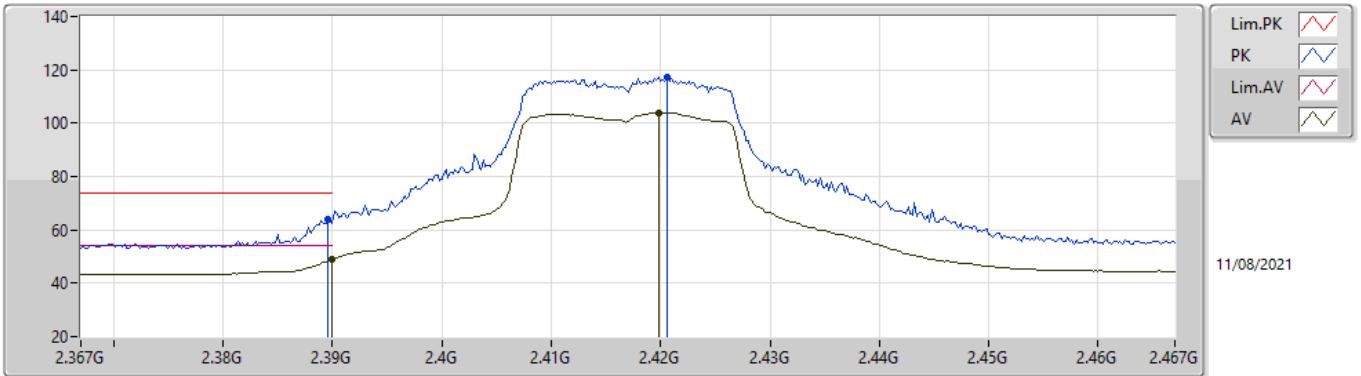


EUT_Z_2TX
Setting 46
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8045G	45.99	74.00	-28.01	41.42	3	Horizontal	100	2.76	-	32.43	5.40	33.26
AV	4.8393G	34.00	54.00	-20.00	29.18	3	Horizontal	100	2.76	-	32.64	5.42	33.24

802.11ax HEW20_Nss1,(MCS0)_2TX

2417MHz_TX

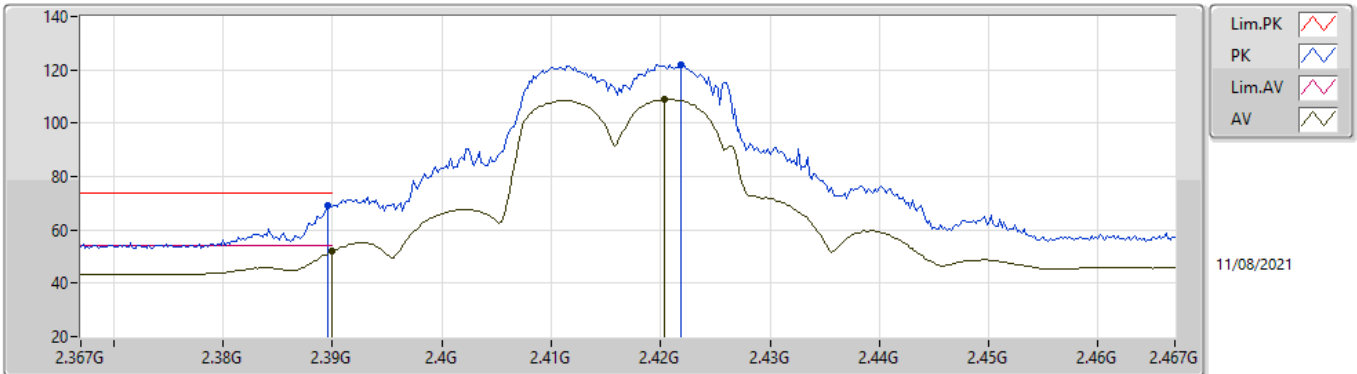


EUT_Z_2TX
Setting 47
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3896G	64.06	74.00	-9.94	33.38	3	Vertical	313	2.95	-	27.48	3.20	-
AV	2.39G	49.15	54.00	-4.85	18.47	3	Vertical	313	2.95	-	27.48	3.20	-
PK	2.4206G	117.24	Inf	-Inf	86.48	3	Vertical	313	2.95	-	27.54	3.22	-
AV	2.4198G	103.98	Inf	-Inf	73.22	3	Vertical	313	2.95	-	27.54	3.22	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2417MHz_TX

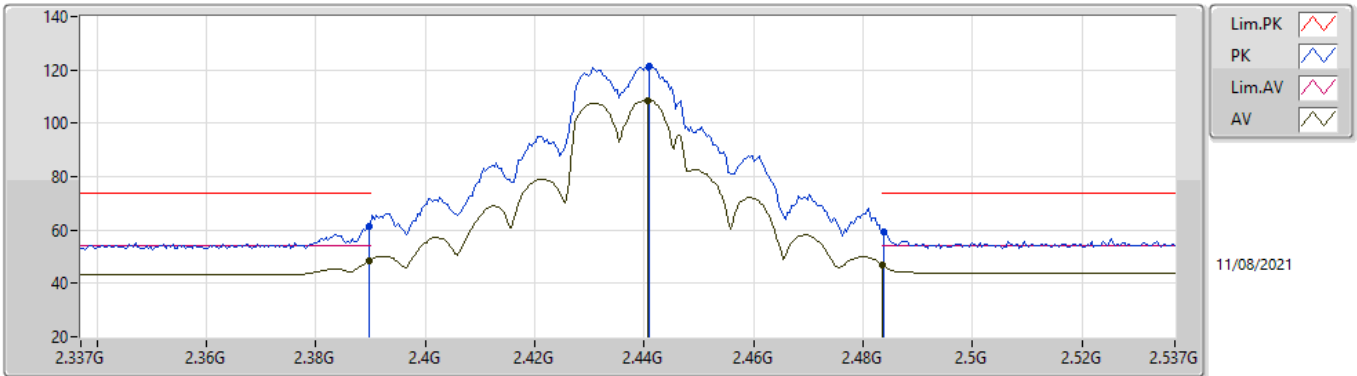


EUT_Z_2TX
Setting 47
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3896G	69.03	74.00	-4.97	38.35	3	Horizontal	50	1.00	-	27.48	3.20	-
AV	2.39G	51.96	54.00	-2.04	21.28	3	Horizontal	50	1.00	-	27.48	3.20	-
PK	2.4218G	121.97	Inf	-Inf	91.21	3	Horizontal	50	1.00	-	27.54	3.22	-
AV	2.4204G	109.02	Inf	-Inf	78.26	3	Horizontal	50	1.00	-	27.54	3.22	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz_TX

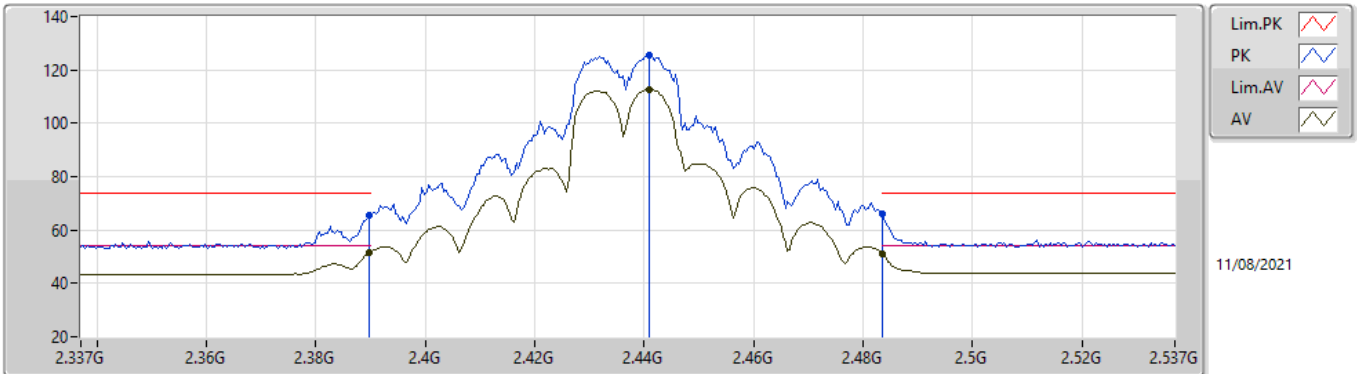


EUT_Z_2TX
Setting 60
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	61.39	74.00	-12.61	30.71	3	Vertical	134	1.00	-	27.48	3.20	-
AV	2.3898G	48.67	54.00	-5.33	17.99	3	Vertical	134	1.00	-	27.48	3.20	-
PK	2.441G	121.15	Inf	-Inf	90.33	3	Vertical	134	1.00	-	27.58	3.24	-
AV	2.4406G	108.60	Inf	-Inf	77.78	3	Vertical	134	1.00	-	27.58	3.24	-
PK	2.4838G	59.44	74.00	-14.56	28.42	3	Vertical	134	1.00	-	27.74	3.28	-
AV	2.4835G	46.75	54.00	-7.25	15.74	3	Vertical	134	1.00	-	27.73	3.28	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz_TX

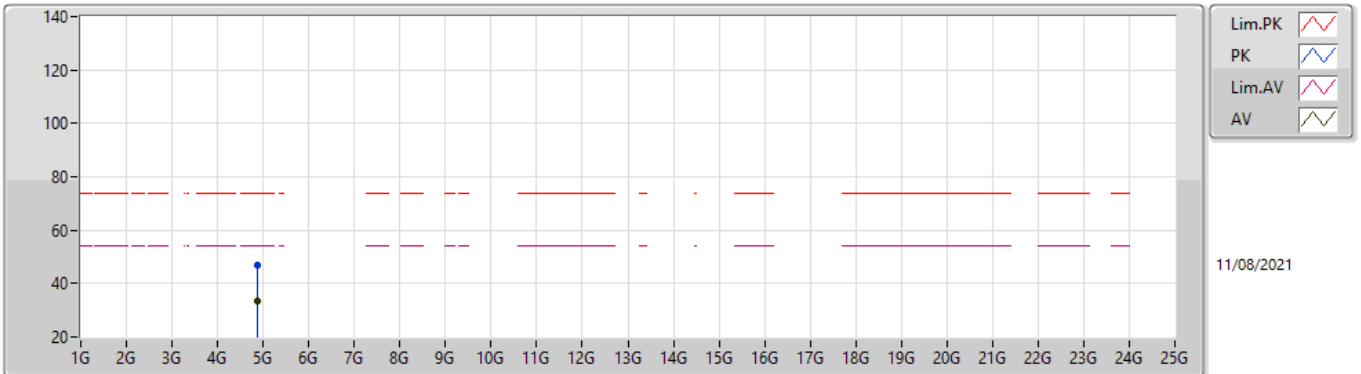


EUT_Z_2TX
Setting 60
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	65.37	74.00	-8.63	34.69	3	Horizontal	46	1.17	-	27.48	3.20	-
AV	2.3898G	51.44	54.00	-2.56	20.76	3	Horizontal	46	1.17	-	27.48	3.20	-
PK	2.441G	125.60	Inf	-Inf	94.78	3	Horizontal	46	1.17	-	27.58	3.24	-
AV	2.441G	112.73	Inf	-Inf	81.91	3	Horizontal	46	1.17	-	27.58	3.24	-
PK	2.4835G	66.00	74.00	-8.00	34.99	3	Horizontal	46	1.17	-	27.73	3.28	-
AV	2.4835G	51.10	54.00	-2.90	20.09	3	Horizontal	46	1.17	-	27.73	3.28	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz_TX

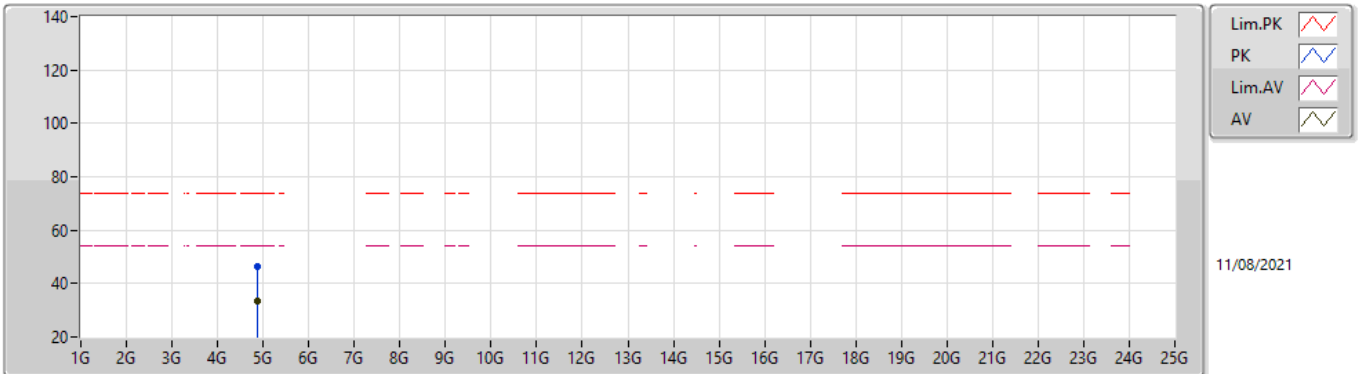


EUT_Z_2TX
Setting 60
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8867G	46.82	74.00	-27.18	41.83	3	Vertical	315	2.60	-	32.77	5.44	33.22
AV	4.8783G	33.45	54.00	-20.55	28.47	3	Vertical	315	2.60	-	32.76	5.44	33.22

802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz_TX

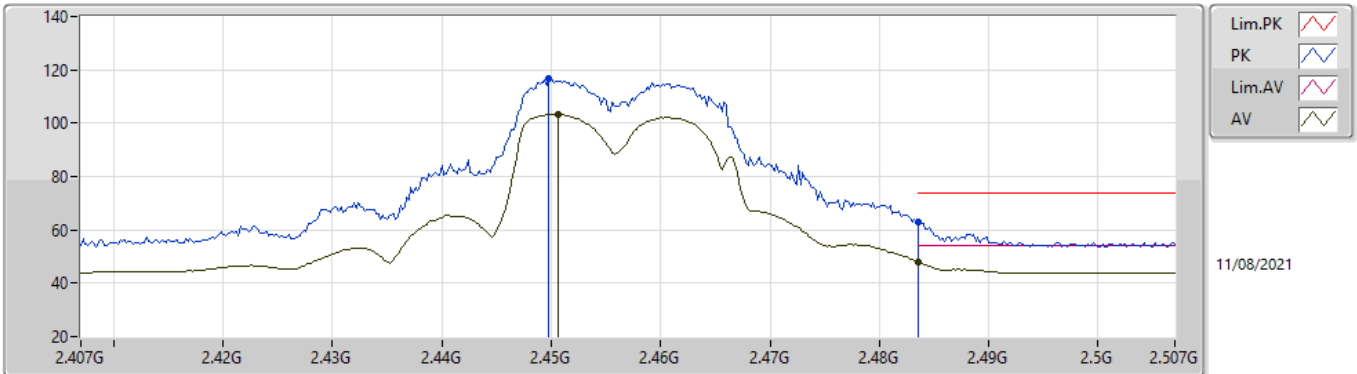


EUT_Z_2TX
Setting 60
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8787G	46.33	74.00	-27.67	41.35	3	Horizontal	20	1.64	-	32.76	5.44	33.22
AV	4.8827G	33.47	54.00	-20.53	28.48	3	Horizontal	20	1.64	-	32.77	5.44	33.22

802.11ax HEW20_Nss1,(MCS0)_2TX

2457MHz_TX

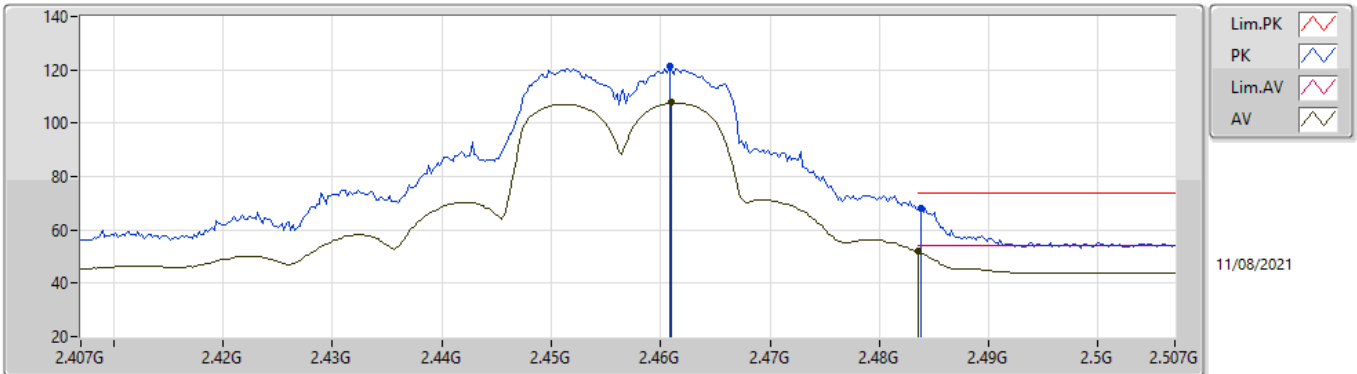


EUT_Z_2TX
Setting 47
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4498G	116.57	Inf	-Inf	85.72	3	Vertical	150	1.00	-	27.60	3.25	-
AV	2.4506G	103.31	Inf	-Inf	72.46	3	Vertical	150	1.00	-	27.60	3.25	-
PK	2.4835G	63.11	74.00	-10.89	32.10	3	Vertical	150	1.00	-	27.73	3.28	-
AV	2.4835G	48.13	54.00	-5.87	17.12	3	Vertical	150	1.00	-	27.73	3.28	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2457MHz_TX

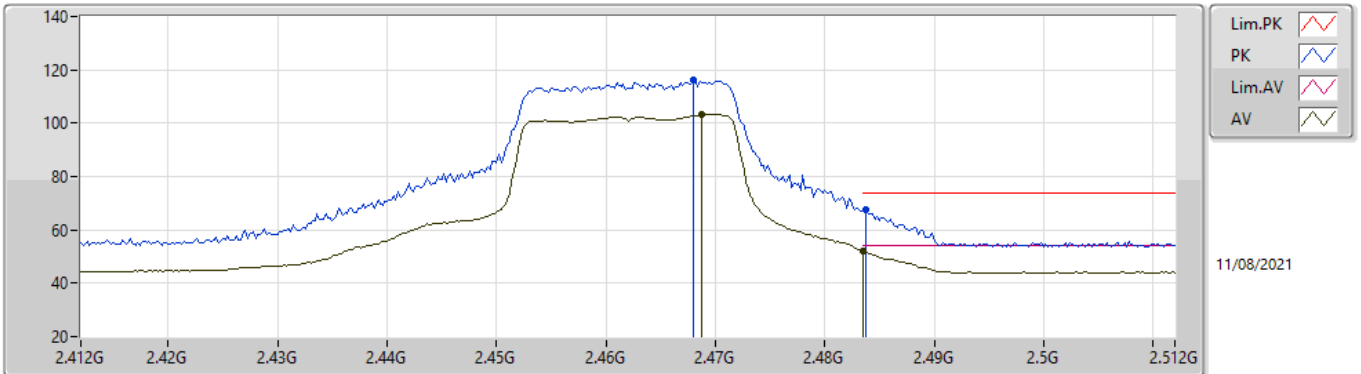


EUT_Z_2TX
Setting 47
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4608G	121.56	Inf	-Inf	90.66	3	Horizontal	46	1.02	-	27.64	3.26	-
AV	2.461G	107.70	Inf	-Inf	76.80	3	Horizontal	46	1.02	-	27.64	3.26	-
PK	2.4838G	68.12	74.00	-5.88	37.10	3	Horizontal	46	1.02	-	27.74	3.28	-
AV	2.4835G	52.05	54.00	-1.95	21.04	3	Horizontal	46	1.02	-	27.73	3.28	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz_TX

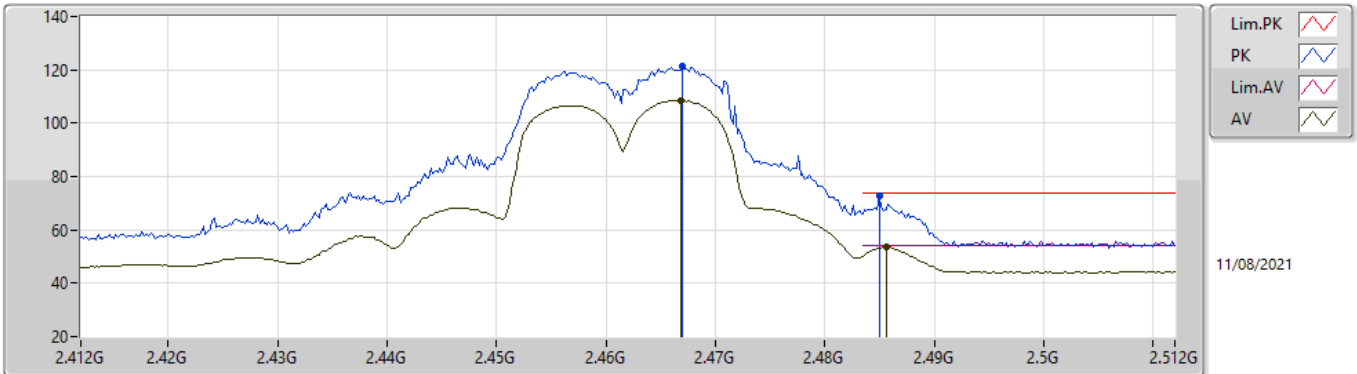


EUT_Z_2TX
Setting 46
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.468G	116.10	Inf	-Inf	85.16	3	Vertical	328	2.89	-	27.67	3.27	-
AV	2.4688G	103.40	Inf	-Inf	72.45	3	Vertical	328	2.89	-	27.68	3.27	-
PK	2.4838G	67.72	74.00	-6.28	36.70	3	Vertical	328	2.89	-	27.74	3.28	-
AV	2.4835G	52.09	54.00	-1.91	21.08	3	Vertical	328	2.89	-	27.73	3.28	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz_TX

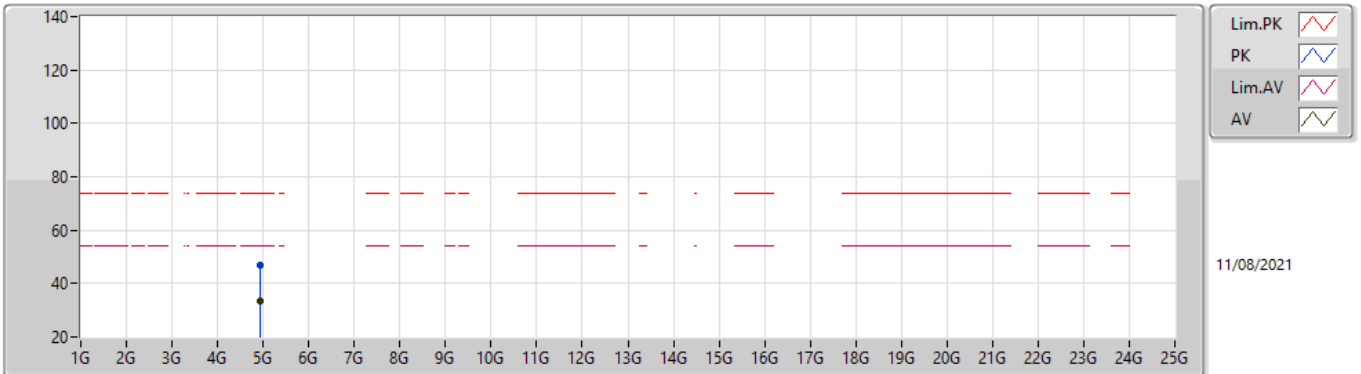


EUT_Z_2TX
Setting 46
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.467G	121.63	Inf	-Inf	90.69	3	Horizontal	46	1.00	-	27.67	3.27	-
AV	2.4668G	108.68	Inf	-Inf	77.74	3	Horizontal	46	1.00	-	27.67	3.27	-
PK	2.485G	72.56	74.00	-1.44	41.53	3	Horizontal	46	1.00	-	27.74	3.29	-
AV	2.4856G	53.57	54.00	-0.43	22.54	3	Horizontal	46	1.00	-	27.74	3.29	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz_TX

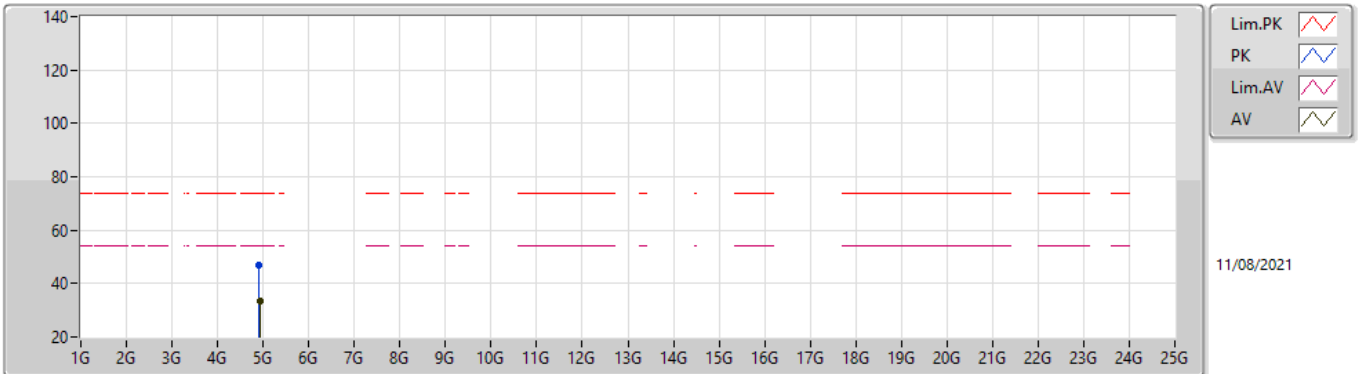


EUT_Z_2TX
Setting 46
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.9409G	46.81	74.00	-27.19	41.57	3	Vertical	30	2.03	-	32.96	5.47	33.19
AV	4.9439G	33.58	54.00	-20.42	28.32	3	Vertical	30	2.03	-	32.98	5.47	33.19

802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz_TX

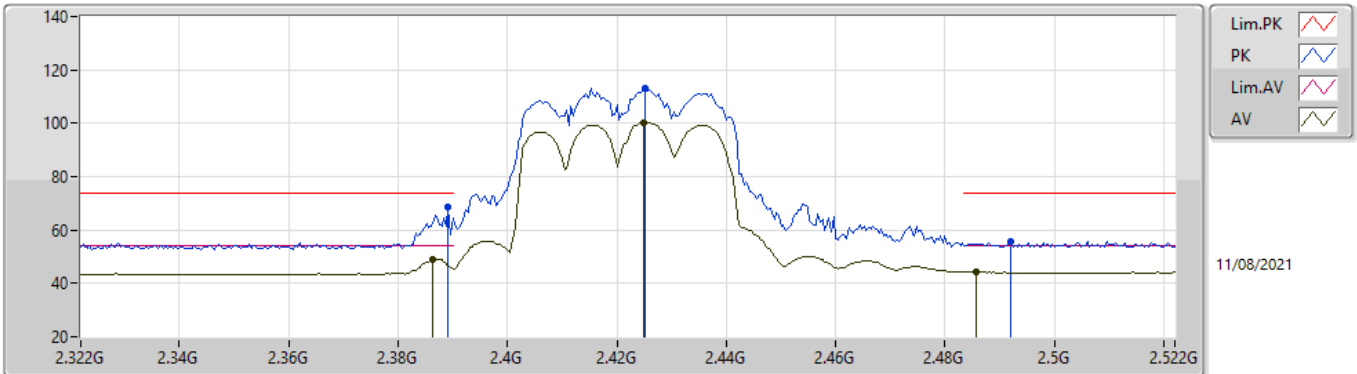


EUT_Z_2TX
Setting 46
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.9047G	46.88	74.00	-27.12	41.82	3	Horizontal	174	2.75	-	32.82	5.45	33.21
AV	4.9489G	33.63	54.00	-20.37	28.35	3	Horizontal	174	2.75	-	33.00	5.47	33.19

802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz_TX

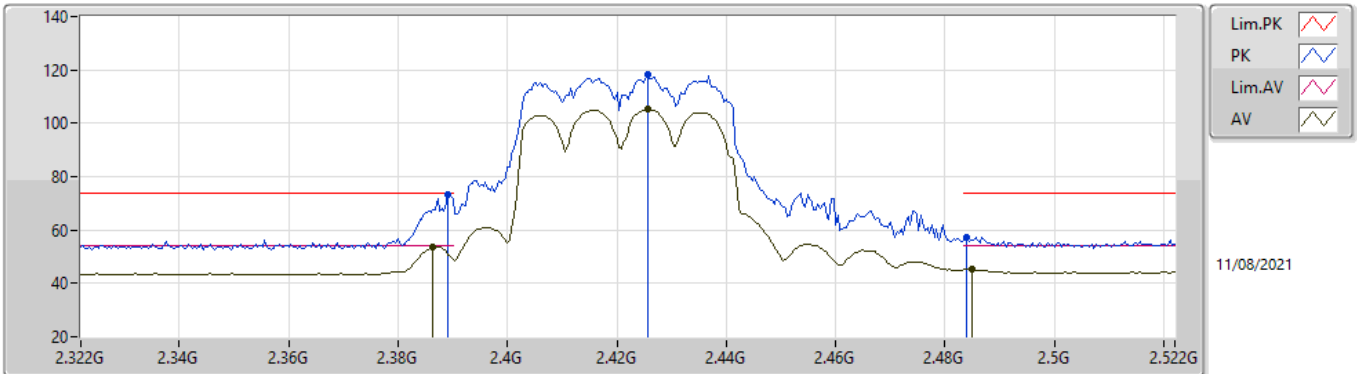


EUT_Z_2TX
Setting 44
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3892G	68.48	74.00	-5.52	37.80	3	Vertical	130	1.07	-	27.48	3.20	-
AV	2.3864G	48.93	54.00	-5.07	18.26	3	Vertical	130	1.07	-	27.47	3.20	-
PK	2.4252G	113.02	Inf	-Inf	82.24	3	Vertical	130	1.07	-	27.55	3.23	-
AV	2.4248G	100.26	Inf	-Inf	69.49	3	Vertical	130	1.07	-	27.55	3.22	-
PK	2.492G	55.69	74.00	-18.31	24.63	3	Vertical	130	1.07	-	27.77	3.29	-
AV	2.4856G	44.31	54.00	-9.69	13.28	3	Vertical	130	1.07	-	27.74	3.29	-

802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz_TX

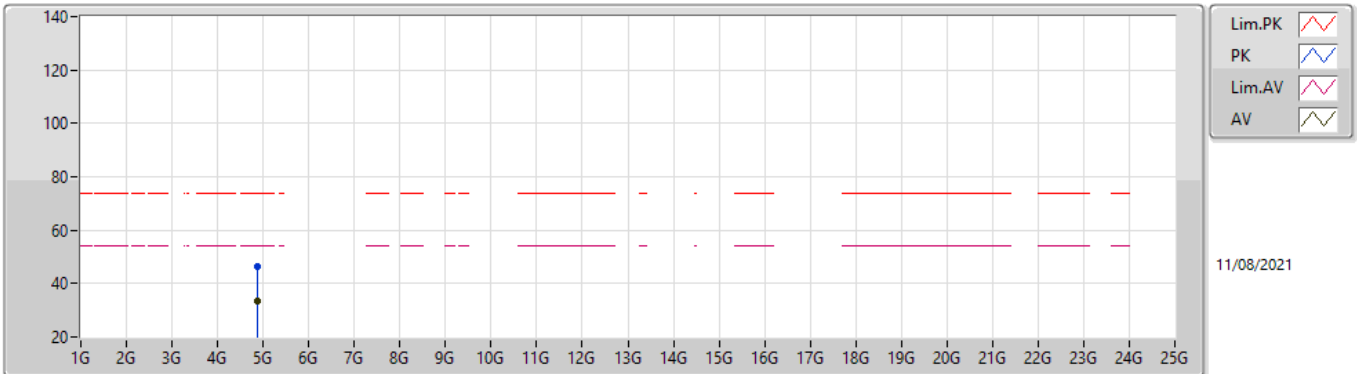


EUT_Z_2TX
Setting 44
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3892G	73.17	74.00	-0.83	42.49	3	Horizontal	51	1.00	-	27.48	3.20	-
AV	2.3864G	53.60	54.00	-0.40	22.93	3	Horizontal	51	1.00	-	27.47	3.20	-
PK	2.4256G	118.48	Inf	-Inf	87.70	3	Horizontal	51	1.00	-	27.55	3.23	-
AV	2.4256G	105.13	Inf	-Inf	74.35	3	Horizontal	51	1.00	-	27.55	3.23	-
PK	2.484G	57.15	74.00	-16.85	26.13	3	Horizontal	51	1.00	-	27.74	3.28	-
AV	2.4848G	45.28	54.00	-8.72	14.26	3	Horizontal	51	1.00	-	27.74	3.28	-

802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz_TX

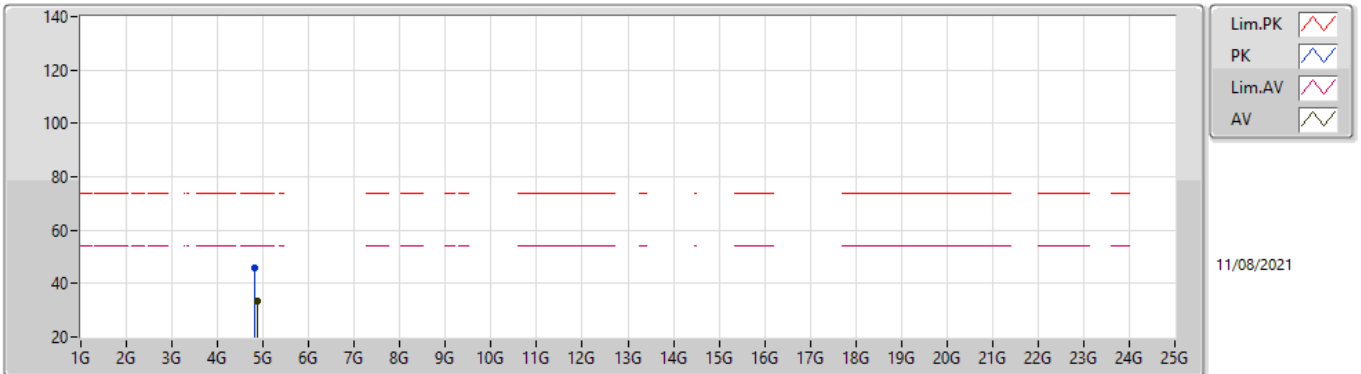


EUT_Z_2TX
Setting 44
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8644G	46.14	74.00	-27.86	41.21	3	Vertical	354	2.84	-	32.73	5.43	33.23
AV	4.8602G	33.43	54.00	-20.57	28.51	3	Vertical	354	2.84	-	32.72	5.43	33.23

802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz_TX

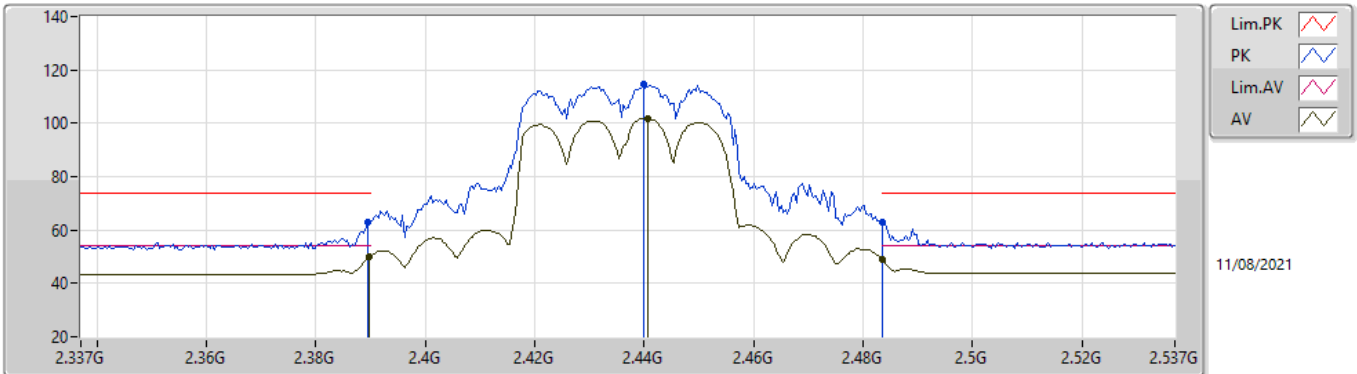


EUT_Z_2TX
Setting 44
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8241G	45.91	74.00	-28.09	41.21	3	Horizontal	155	2.96	-	32.54	5.41	33.25
AV	4.869G	33.64	54.00	-20.36	28.70	3	Horizontal	155	2.96	-	32.74	5.43	33.23

802.11ax HEW40_Nss1,(MCS0)_2TX

2437MHz_TX

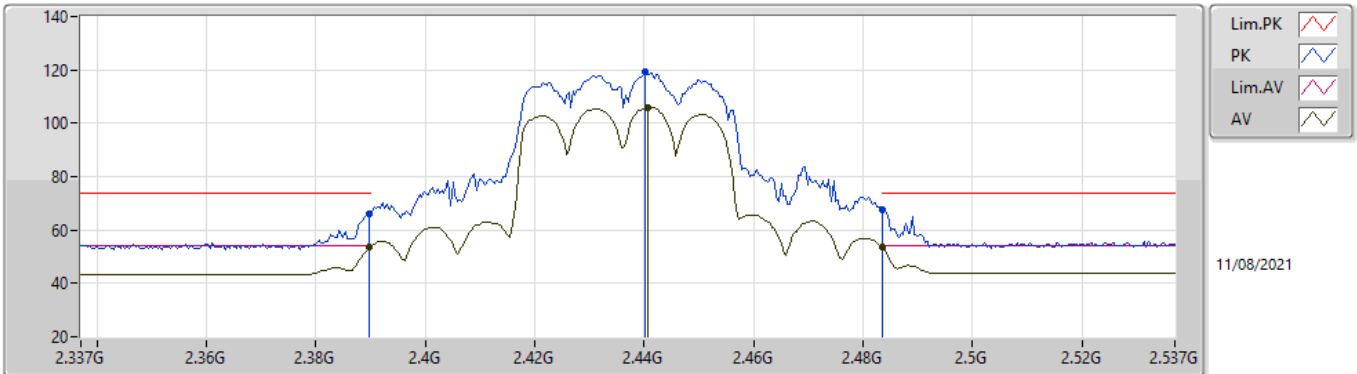


EUT_Z_2TX
Setting 46
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3894G	62.82	74.00	-11.18	32.14	3	Vertical	135	1.00	-	27.48	3.20	-
AV	2.3898G	49.90	54.00	-4.10	19.22	3	Vertical	135	1.00	-	27.48	3.20	-
PK	2.4398G	114.89	Inf	-Inf	84.07	3	Vertical	135	1.00	-	27.58	3.24	-
AV	2.4406G	101.83	Inf	-Inf	71.01	3	Vertical	135	1.00	-	27.58	3.24	-
PK	2.4835G	63.06	74.00	-10.94	32.05	3	Vertical	135	1.00	-	27.73	3.28	-
AV	2.4835G	49.07	54.00	-4.93	18.06	3	Vertical	135	1.00	-	27.73	3.28	-

802.11ax HEW40_Nss1,(MCS0)_2TX

2437MHz_TX

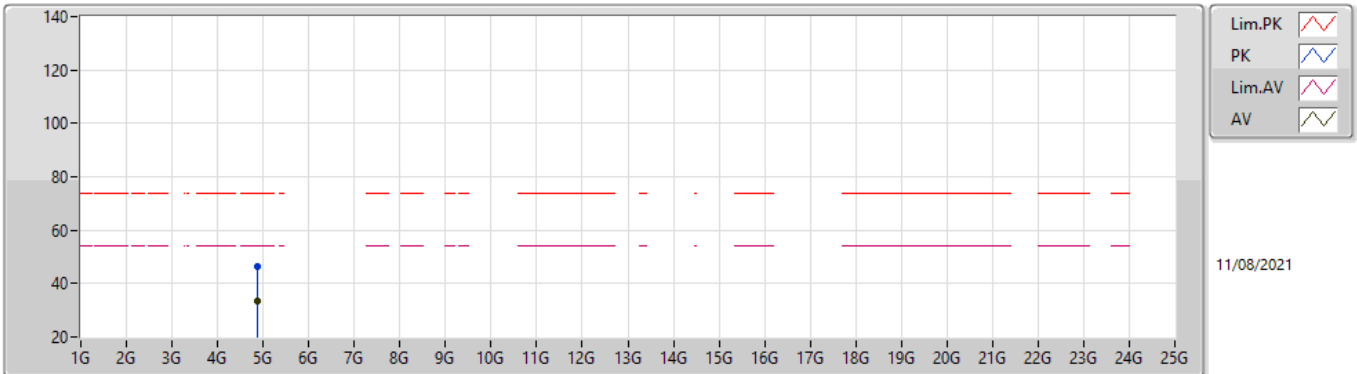


EUT_Z_2TX
Setting 46
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	66.29	74.00	-7.71	35.61	3	Horizontal	48	1.17	-	27.48	3.20	-
AV	2.3898G	53.50	54.00	-0.50	22.82	3	Horizontal	48	1.17	-	27.48	3.20	-
PK	2.4402G	119.34	Inf	-Inf	88.52	3	Horizontal	48	1.17	-	27.58	3.24	-
AV	2.4406G	106.01	Inf	-Inf	75.19	3	Horizontal	48	1.17	-	27.58	3.24	-
PK	2.4835G	67.71	74.00	-6.29	36.70	3	Horizontal	48	1.17	-	27.73	3.28	-
AV	2.4835G	53.58	54.00	-0.42	22.57	3	Horizontal	48	1.17	-	27.73	3.28	-

802.11ax HEW40_Nss1,(MCS0)_2TX

2437MHz_TX

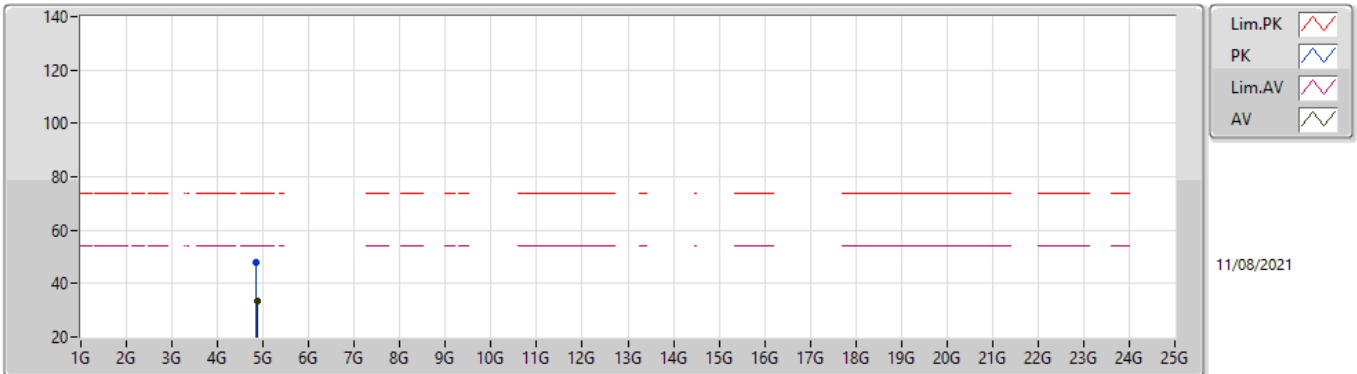


EUT_Z_2TX
Setting 46
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8784G	46.15	74.00	-27.85	41.17	3	Vertical	160	2.34	-	32.76	5.44	33.22
AV	4.8784G	33.44	54.00	-20.56	28.46	3	Vertical	160	2.34	-	32.76	5.44	33.22

802.11ax HEW40_Nss1,(MCS0)_2TX

2437MHz_TX

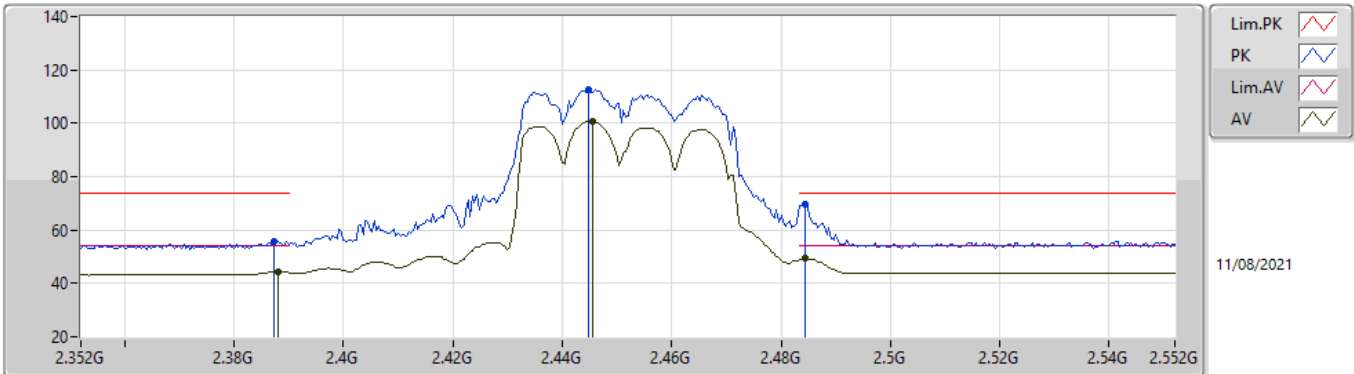


EUT_Z_2TX
Setting 46
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8584G	47.99	74.00	-26.01	43.07	3	Horizontal	93	2.34	-	32.72	5.43	33.23
AV	4.8849G	33.54	54.00	-20.46	28.55	3	Horizontal	93	2.34	-	32.77	5.44	33.22

802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz_TX

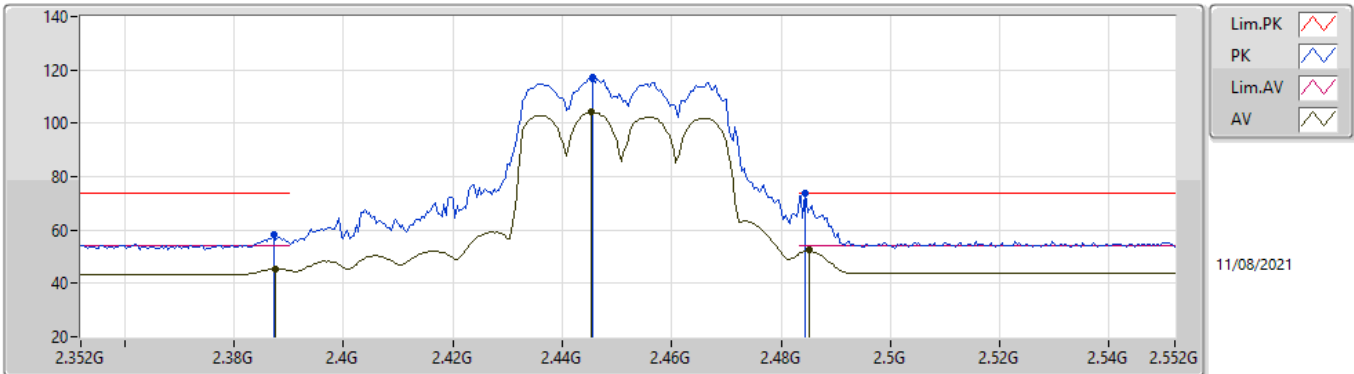


EUT_Z_2TX
Setting 44
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3872G	55.64	74.00	-18.36	24.97	3	Vertical	136	1.00	-	27.47	3.20	-
AV	2.388G	44.34	54.00	-9.66	13.66	3	Vertical	136	1.00	-	27.48	3.20	-
PK	2.4448G	112.84	Inf	-Inf	82.01	3	Vertical	136	1.00	-	27.59	3.24	-
AV	2.4456G	100.71	Inf	-Inf	69.87	3	Vertical	136	1.00	-	27.59	3.25	-
PK	2.4844G	69.61	74.00	-4.39	38.59	3	Vertical	136	1.00	-	27.74	3.28	-
AV	2.4844G	49.27	54.00	-4.73	18.25	3	Vertical	136	1.00	-	27.74	3.28	-

802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz_TX

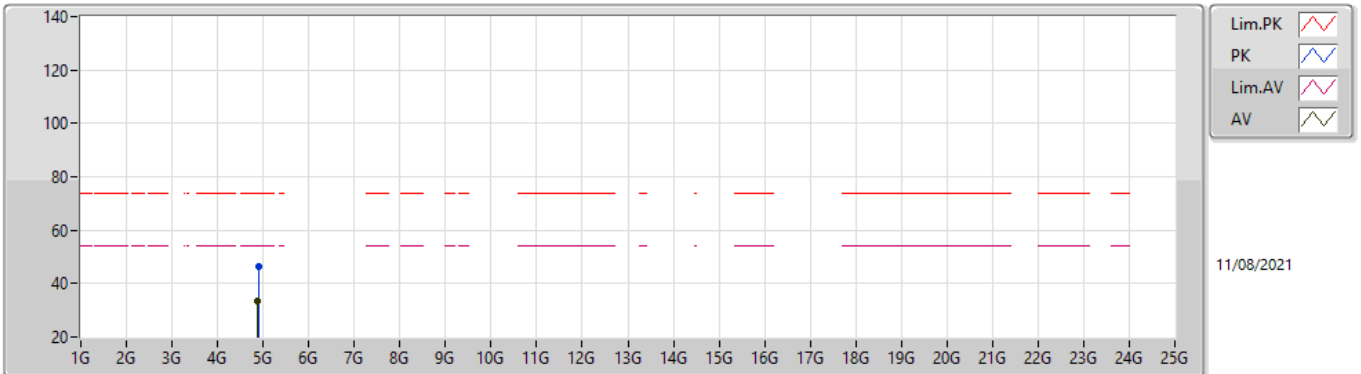


EUT_Z_2TX
Setting 44
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3872G	58.38	74.00	-15.62	27.71	3	Horizontal	49	1.13	-	27.47	3.20	-
AV	2.3876G	45.39	54.00	-8.61	14.71	3	Horizontal	49	1.13	-	27.48	3.20	-
PK	2.4456G	117.09	Inf	-Inf	86.25	3	Horizontal	49	1.13	-	27.59	3.25	-
AV	2.4452G	104.09	Inf	-Inf	73.25	3	Horizontal	49	1.13	-	27.59	3.25	-
PK	2.4844G	73.91	74.00	-0.09	42.89	3	Horizontal	49	1.13	-	27.74	3.28	-
AV	2.4852G	52.34	54.00	-1.66	21.31	3	Horizontal	49	1.13	-	27.74	3.29	-

802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz_TX

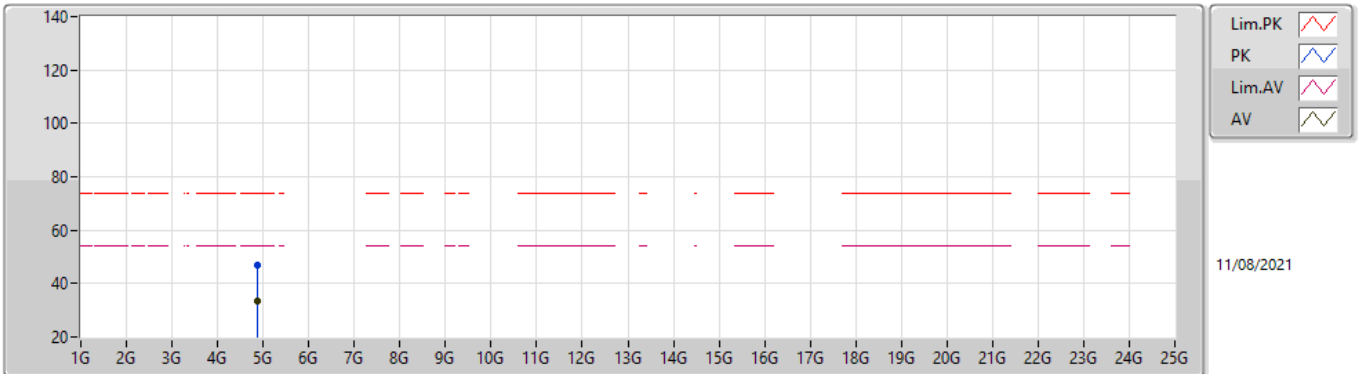


EUT_Z_2TX
Setting 44
04-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	4.9061G	46.46	74.00	-27.54	41.40	3	Vertical	178	1.18	-	32.82	5.45	33.21	
AV	4.8865G	33.59	54.00	-20.41	28.60	3	Vertical	178	1.18	-	32.77	5.44	33.22	

802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz_TX



EUT_Z_2TX
Setting 44
04-F-N-2

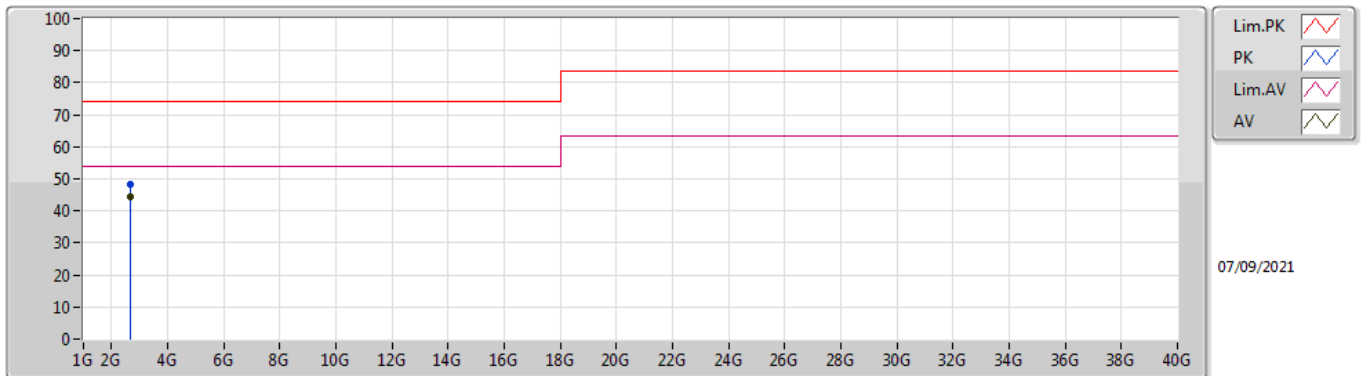
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8816G	46.81	74.00	-27.19	41.83	3	Horizontal	353	1.16	-	32.76	5.44	33.22
AV	4.884G	33.51	54.00	-20.49	28.52	3	Horizontal	353	1.16	-	32.77	5.44	33.22



Summary

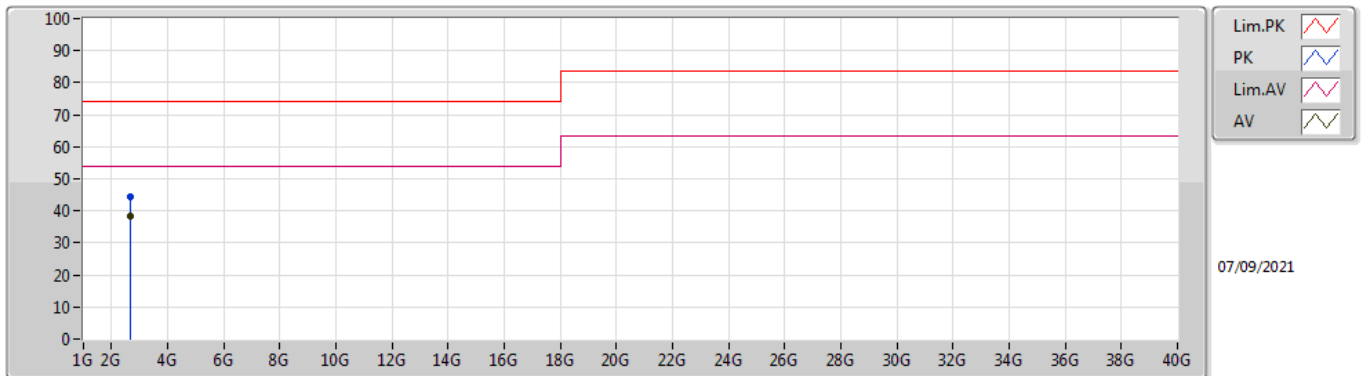
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	2.68801G	44.36	54.00	-9.64	Vertical

Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	2.68808G	48.38	74.00	-25.62	-2.30	3	Vertical	199	1.54	-	50.68	27.73	3.48	33.51
AV	2.68801G	44.36	54.00	-9.64	-2.30	3	Vertical	199	1.54	"Worst"	46.66	27.73	3.48	33.51

Mode 1



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	2.68797G	44.47	74.00	-29.53	-2.30	3	Horizontal	144	1.00	-	46.77	27.73	3.48	33.51
AV	2.68801G	38.20	54.00	-15.80	-2.30	3	Horizontal	144	1.00	"Worst"	40.50	27.73	3.48	33.51